

aiwa



LCX-350 LCX-352 LCX-358



COMPACT DISC STEREO SYSTEM

- BASIC TAPE MECHANISM: 2ZM-1 R6
- BASIC CD MECHANISM: KSM-2131 BDM
- TYPE: LH<350>, K<350>, EZ<352,358>

S E R V I C E M A N U A L

ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO	PART NO.	KANRI NO.	DESCRIPTION
1	88-CL5-628-010		ANT, LOOP
2	87-A90-118-010		ANT, WIRE FM (Z)<EXCEPT 350LH>
2	88-CL5-626-010		FEEDER-ANT, FM<350LH>
3	88-CLF-906-010		IB,E(9L)B<358EZ>
3	88-CL5-906-010		IB,E(9L)B<352EZ>
3	88-CL5-905-010		IB,K(E)B<350K>
3	88-CL5-902-010		IB,LH(ESP)B<350LH>
△	87-A90-312-010		PLUG, CONVERSION WTN-1157R1<350LH>
5	88-CL5-951-010		RC UNIT, RC-8AT02

SPECIFICATIONS

K, EZ MODELS:

FM tuner section

Tuning range

Usable sensitivity (IHF)

Antenna terminals

87.5 MHz to 108 MHz

13.2 dBf

75 ohms (unbalanced)

MW tuner section

Tuning range

531 kHz to 1602 kHz (9 kHz step)

530 kHz to 1710 kHz (10 kHz step)

350 μ V/m

Loop antenna

LW tuner section

Tuning range

144 kHz to 290 kHz

Usable sensitivity

1400 μ V/m

Antenna

Loop antenna

LH MODEL:

FM tuner section

Tuning range

87.5 MHz to 108 MHz

Usable sensitivity (IHF)

13.2 dBf

Antenna terminals

75 ohms (unbalanced)

AM tuner section

Tuning range

530 kHz to 1710 kHz (10 kHz step)

Usable sensitivity

531 kHz to 1602 kHz (9 kHz step)

Antenna

350 μ V/m

Amplifier section

LCX-358 MODEL:

Power output

Rated: 8 W + 8 W (6 ohms, T.H.D. 1%, 1 kHz/DIN 45500)

Reference: 11 W + 11 W
(6 ohms, T.H.D. 10%, 1 kHz/DIN 45324)

DIN MUSIC POWER

17 W + 17 W

AUX: 0.5 V

SPEAKERS: accept speakers of 6 ohms or more

PHONES (stereo minijack):
accepts headphones of 32 ohms or more

LCX-352 MODEL:

Power output

Rated: 8 W + 8 W (8 ohms, T.H.D. 1%, 1 kHz/DIN 45500)

Reference: 10 W + 10 W
(8 ohms, T.H.D. 10%, 1 kHz/DIN 45324)

DIN MUSIC POWER

16 W + 16 W

AUX: 0.5 V

SPEAKERS: accept speakers of 8 ohms or more

PHONES (stereo minijack):
accepts headphones of 32 ohms or more

LCX-350 MODEL:

Power output

10 W + 10 W (1 kHz, T.H.D. 10%, 8 ohms)

0.1 % (5 W, 1 kHz, 8 ohms)

AUX: 0.5 V

SPEAKERS: accept speakers of 8 ohms or more

PHONES (stereo minijack):
accepts headphones of 32 ohms or more

Cassette deck section

Track format

4 tracks, 2 channels stereo

Frequency response

Normal tape: 50 Hz - 15000 Hz

Recording system

AC bias

Heads

Recording/playback × 1

Erase head × 1

Compact disc player section

Laser

Semiconductor laser ($\lambda = 780$ nm)

D-A converter

1 bit linear

Wow and flutter

Unmeasurable

SPEAKER SYSTEM

LCX-358 MODEL:

Cabinet type

3 way, bass reflex

Speakers

Woofer: 120 mm cone type

Cardioid speaker:

60 mm cone type

Tweeter: 20 mm cone type

6 ohms

175 × 261 × 247 mm

1.6 kg

LCX-352 MODEL:

Cabinet type

2 way, bass reflex

Speakers

Woofer: 100 mm cone type

Tweeter: 25 mm ceramic type

8 ohms

160 × 255 × 253.5 mm

1.5 kg

LCX-350 MODEL:

Cabinet type

1 way, bass reflex

Speakers

100 mm cone type

Impedance

8 ohms

Dimensions (W × H × D)

160 × 255 × 253.5 mm

Weight

1.5 kg

GENERAL

K, EZ MODELS:

Power requirements

AC : 230 V, 50 Hz

DC : 12 V

35 W

160 × 255 × 244 mm

3.1 kg

LH MODEL:

Power requirements

AC : 110 - 120 V/220 - 240 V,
switchable 50/60 Hz

DC : 12 V

33 W

160 × 255 × 244 mm

3.1 kg

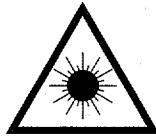
- Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käytööhjeessa mainitulla tavalla saattaa altistaa käytäjän turvallisuusluokan 1 ylitävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

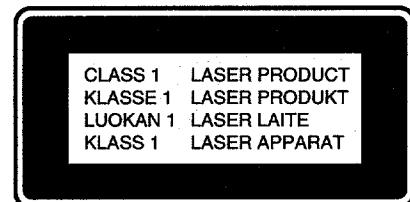
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

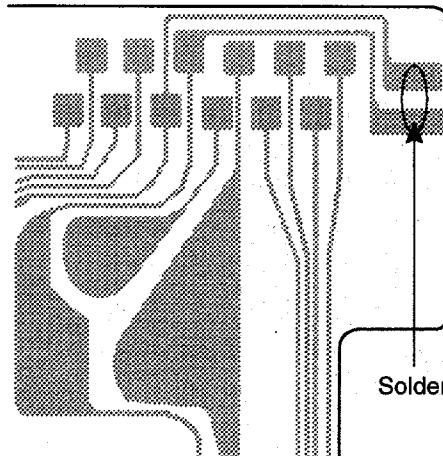


Precaution to replace Optical block (KSS-213B)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.

PICK-UP Assy P.C.B



ELECTRICAL MAIN PARTS LIST

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C308	87-010-263-080	CAP, ELECT 100-10V	
	87-A20-446-010	C-IC, LA9241ML		C315	87-010-374-080	CAP, ELECT 47-10V	
	87-A20-187-010	IC, LC78622E		C317	87-010-546-080	CAP, ELECT 0.33-50V	
	87-A20-856-010	IC, BA6898S		C318	87-010-546-080	CAP, ELECT 0.33-50V	
	88-CL5-603-01J	IC, LC867248A-5H31<352EZ, 358EZ>		C360	87-010-401-080	CAP, ELECT 1-50V	
	88-CL5-601-01J	IC, LC867248A-5G97<350LH, 350K>		C361	87-010-374-080	CAP, ELECT 47-10V	
	87-NF8-614-010	IC, SPS-442-1-W		C401	87-010-401-080	CAP, ELECT 1-50V	
	87-017-889-010	IC, NJW4558LD		C402	87-010-401-080	CAP, ELECT 1-50V	
	87-A20-910-010	C-IC, MM1434XF		C403	87-010-321-080	CHIP CAPACITOR, 82P(J)	
	87-A20-715-010	IC, MG2439SP		C404	87-010-321-080	CHIP CAPACITOR, 82P(J)	
	87-A20-909-010	IC, LA4663		C452	87-010-382-080	CAP, ELECT 22-25V	
	87-070-127-110	IC, LC72131 D		C457	87-010-187-080	CAP CHIP S5600P	
	87-A20-438-010	IC, LA1837		C458	87-010-178-080	CHIP CAP 1000P	
	87-A20-440-040	C-IC, BU1920FS<352EZ, 358EZ>		C459	87-010-175-080	CAP 560P	
				C461	87-010-173-080	C-CAP, S 390P-50 SL	
TRANSISTOR				C462	87-010-173-080	C-CAP, S 390P-50 SL	
	87-A30-015-080	TR, 2SA1317TU		C501	87-010-405-080	CAP, ELECT 10-50V	
	89-112-965-080	TR, 2SA1296 (0.75W)		C502	87-010-405-080	CAP, ELECT 10-50V	
	87-026-610-080	TR, KTC3198GR		C503	87-010-405-080	CAP, ELECT 10-50V	
	88-CL5-622-010	TR, 2SB1655E		C504	87-010-405-080	CAP, ELECT 10-50V	
	87-026-218-080	TR, DTC144ES (0.2W)		C505	87-010-405-080	CAP, ELECT 10-50V	
	87-026-237-080	CHIP-TR, DTC124XX		C506	87-010-405-080	CAP, ELECT 10-50V	
	87-026-263-080	C-TR, RN1410		C507	87-010-405-080	CAP, ELECT 10-50V	
	89-320-011-080	TR, 2SC2001 (15W)		C508	87-010-405-080	CAP, ELECT 10-50V	
	89-109-521-080	TR, 2SA952 (0.6W)		C509	87-010-405-080	CAP, ELECT 10-50V	
	87-A30-091-080	FET, 2SJ460		C510	87-010-405-080	CAP, ELECT 10-50V	
	87-A30-090-080	FET, 2SK2541		C513	87-010-545-080	CAP, ELECT 0.22-50V	
	87-A30-151-080	TR, 2SA1993F		C514	87-010-545-080	CAP, ELECT 0.22-50V	
	89-333-317-080	TR, 2SC3331 (0.5W)		C515	87-010-545-080	CAP, ELECT 0.22-50V	
	89-322-405-080	TR, 2SC2240GR<EXCEPT 350LH>		C516	87-010-545-080	CAP, ELECT 0.22-50V	
	87-026-219-080	TR, DTA144ES (0.3W)		C517	87-010-762-080	CAP E220-10 BP	
	87-A30-152-080	TR, 2SC5395F		C518	87-010-762-080	CAP E220-10 BP	
	87-A30-196-080	TR, 2SC4115SRS		C519	87-010-401-080	CAP, ELECT 1-50V<EXCEPT 350LH>	
	89-327-143-080	TR, 2SC2714 (0.1W)		C520	87-010-401-080	CAP, ELECT 1-50V<EXCEPT 350LH>	
	87-A30-072-080	C-TR, RT1P 144C		C521	87-010-401-080	CAP, ELECT 1-50V<EXCEPT 350LH>	
	87-026-230-080	TR, DTA114YK		C522	87-010-401-080	CAP, ELECT 1-50V<EXCEPT 350LH>	
	87-A30-076-080	C-TR, 2SC3052F<352EZ, 358EZ>		C523	87-010-297-080	CAP CHIP 100P	
	87-A30-073-080	C-TR, RT1N 141C<352EZ, 358EZ>		C525	87-010-221-080	CAP, ELECT 470-10V<EXCEPT 350LH>	
	89-505-434-540	C-FET, 2SK543 (4/5)<EXCEPT 350LH>		C526	87-010-263-080	CAP, ELECT 100-10V<EXCEPT 350LH>	
	87-A30-086-070	C-TR, CSD1306E<EXCEPT 350LH>		C527	87-010-196-080	CHIP CAPACITOR, 0.1-25	
	87-A30-074-080	C-TR, RT1P 141C<EXCEPT 350LH>		C528	87-010-374-080	CAP, ELECT 47-10V	
DIODE				C529	87-010-401-080	CAP, ELECT 1-50V	
	87-020-465-080	DIODE, 1SS133 (110mA)		C530	87-010-401-080	CAP, ELECT 1-50V	
	87-070-345-080	DIODE, IN4148		C531	87-010-405-080	CAP, ELECT 10-50V	
	87-027-825-080	ZENER, HZ9A3L		C532	87-010-402-080	CAP, ELECT 2.2-50V	
	87-A40-304-080	ZENER, DZ6.2M<EXCEPT 350LH>		C537	87-010-401-080	CAP, ELECT 1-50V	
	87-017-931-080	ZENER, MTZJ5.6B<350LH>		C538	87-010-401-080	CAP, ELECT 1-50V	
	87-A40-523-080	ZENER, MTZJ9.1B		C539	87-010-401-080	CAP, ELECT 1-50V	
	87-070-136-080	ZENER, MTZJ5.1B		C540	87-010-401-080	CAP, ELECT 1-50V	
	87-A40-347-080	ZENER, MTZJ2.2B		C541	87-010-404-080	CAP, ELECT 4.7-50V	
	87-A40-345-080	ZENER, MTZJ10C		C542	87-010-404-080	CAP, ELECT 4.7-50V	
	87-070-022-010	DIODE, IN5402 (RECT)		C547	87-010-405-080	CAP, ELECT 10-50V<EXCEPT 350LH>	
	87-A40-003-080	ZENER, MTZJ4.3A<350LH>		C547	87-010-404-080	CAP, ELECT 4.7-50V<350LH>	
	87-A40-246-080	DIODE, IN4148 T-72		C548	87-010-408-080	CAP, ELECT 47-50V	
	87-A40-234-080	ZENER, MTZJ5.6A		C549	87-010-405-080	CAP, ELECT 10-50V	
	87-A40-270-080	C-DIODE, MC2838<EXCEPT 350LH>		C550	87-010-405-080	CAP, ELECT 10-50V	
MAIN C.B				C551	87-010-405-080	CAP, ELECT 10-50V	
	87-A90-160-080	FUSE CLAMP, FC 51F		C582	87-010-182-080	C-CAP, S 2200P-50 B	
C301	87-010-177-080	C-CAP, S 820P-50 SL		C583	87-010-174-080	CAP CHIP SL470P (K)<EXCEPT 350LH>	
C302	87-010-177-080	C-CAP, S 820P-50 SL		C584	87-010-186-080	CAP CHIP 4700P<350LH>	
C303	87-010-177-080	C-CAP, S 820P-50 SL<EXCEPT 350LH>		C584	87-010-174-080	CAP CHIP SL470P (K)<EXCEPT 350LH>	
C303	87-010-180-080	C-CAP 1500P-50B<350LH>		C618	87-010-174-080	CAP CHIP SL470P (K)	
C304	87-010-177-080	C-CAP, S 820P-50 SL<EXCEPT 350LH>		C619	87-010-408-080	CAP, ELECT 47-50V	
C304	87-010-180-080	C-CAP 1500P-50B<350LH>		C620	87-010-384-080	CAP, ELECT 100-25V	
C307	87-010-263-080	CAP, ELECT 100-10V		C621	87-010-381-080	CAP, ELECT 330-16V	
				C650	87-010-197-080	CAP, CHIP 0.01 DM	

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C651	87-010-198-080	CAP, CHIP 0.022		C828	87-010-196-080	CAP, CHIP CAPACITOR, 0.1-25	
C652	87-010-198-080	CAP, CHIP 0.022		C829	87-010-196-080	CAP, CHIP CAPACITOR, 0.1-25	
C653	87-010-198-080	CAP, CHIP 0.022		C859	87-010-197-080	CAP, CHIP 0.01 DM<352EZ, 358EZ>	
C654	87-010-198-080	CAP, CHIP 0.022		C861	87-012-156-080	C-CAP, S 220P-50 CH<352EZ, 358EZ>	
C655	87-010-453-090	CAP ELECT 4700-25V SME		C862	87-012-156-080	C-CAP, S 220P-50 CH<352EZ, 358EZ>	
C661	87-010-263-080	CAP, ELECT 100-10V		C863	87-012-140-080	CAP 470P<352EZ, 358EZ>	
C662	87-010-403-080	CAP, ELECT 3.3-50V		C864	87-010-405-080	CAP, ELECT 10-50V<352EZ, 358EZ>	
C665	87-010-197-080	CAP, CHIP 0.01 DM<352EZ, 358EZ>		C865	87-010-197-080	CAP, CHIP 0.01 DM<352EZ, 358EZ>	
C666	87-010-197-080	CAP, CHIP 0.01 DM<352EZ, 358EZ>		C866	87-010-405-080	CAP, ELECT 10-50V<352EZ, 358EZ>	
C667	87-010-197-080	CAP, CHIP 0.01 DM<352EZ, 358EZ>		C867	87-010-197-080	CAP, CHIP 0.01 DM<352EZ, 358EZ>	
C668	87-010-197-080	CAP, CHIP 0.01 DM<352EZ, 358EZ>		C868	87-010-316-080	C-CAP, S 33P-50 CH<352EZ, 358EZ>	
C701	87-010-381-080	CAP, ELECT 330-16V		C869	87-010-314-080	C-CAP, S 22P-50V<352EZ, 358EZ>	
C702	87-010-404-080	CAP, ELECT 4.7-50V		C940	87-010-197-080	CAP, CHIP 0.01 DM<EXCEPT 350LH>	
C703	87-010-197-080	CAP, CHIP 0.01 DM		C942	87-010-151-080	C-CAP, S 7P-50 CH<EXCEPT 350LH>	
C704	87-010-197-080	CAP, CHIP 0.01 DM		C947	87-010-197-080	CAP, CHIP 0.01 DM<EXCEPT 350LH>	
C711	87-010-263-080	CAP, ELECT 100-10V		C949	87-014-049-080	CAP, PP 470P-100 J<EXCEPT 350LH>	
C712	87-010-196-080	CAP, CHIP CAPACITOR, 0.1-25		C952	87-010-197-080	CAP, CHIP 0.01 DM<EXCEPT 350LH>	
C713	87-010-197-080	CAP, CHIP 0.01 DM		C957	87-010-311-080	CAP 12P<EXCEPT 350LH>	
C714	87-010-197-080	CAP, CHIP 0.01 DM		C958	87-010-197-080	CAP, CHIP 0.01 DM<EXCEPT 350LH>	
C718	87-010-297-080	C-CAP, S 100P-50		C959	87-010-196-080	CHIP CAPACITOR, 0.1-25	
C721	87-010-312-080	C-CAP, S 15P-50 CH		C960	87-010-196-080	CHIP CAPACITOR, 0.1-25	
C722	87-010-312-080	C-CAP, S 15P-50 CH		C961	87-010-152-080	C-CAP, S 8P-50 CH<350LH>	
C723	87-010-178-080	CHIP CAP 1000P		C962	87-010-401-080	CAP, ELECT 1-50V<EXCEPT 350LH>	
C725	87-010-178-080	CHIP CAP 1000P		CF801	87-008-261-010	FILTER, SFE10.7MA5-A<350LH>	
C727	87-010-196-080	CHIP CAPACITOR, 0.1-25		CF801	87-008-423-010	CERAMIC FILTER, SFE10.7 <EXCEPT 350LH>	
C728	87-010-248-080	CAP, ELECT 220-10V					
C740	87-010-197-080	CAP, CHIP 0.01 DM		CF802	87-008-261-010	FILTER, SFE10.7MA5-A<350LH>	
C756	87-010-197-080	CAP, CHIP 0.01 DM		CF802	82-785-747-010	CF MS2 GHY R<EXCEPT 350LH>	
C757	87-010-318-080	C-CAP, S 47P-50 CH		AF651	87-035-192-010	FUSE, 4AT	
C758	87-010-149-080	C-CAP, S 5P-50 CH		FB601	87-003-216-080	F-BEAD, BLO1RM1	
C762	87-010-197-080	CAP, CHIP 0.01 DM		FB602	87-003-216-080	F-BEAD, BLO1RM1	
C763	87-010-194-080	CAP, CHIP 0.047		FB603	87-003-216-080	F-BEAD, BLO1RM1	
C764	87-010-319-080	C-CAP, S 56P-50 CH<350LH, 350K>		FB604	87-003-216-080	F-BEAD, BLO1RM1	
C765	87-010-197-080	CAP, CHIP 0.01 DM		FFE801	A8-8ZA-193-070	8ZA-1 YFEUNC<350LH, 350K>	
C767	87-010-405-080	CAP, ELECT 10-50V		FFE801	A8-6ZA-19C-170	6ZA-1 YFEENC<352EZ, 358EZ>	
C768	87-010-197-080	CAP, CHIP 0.01 DM		J601	88-CL5-609-010	TERMINAL, SP 4P <EXCEPT 350LH>	
C769	87-010-408-080	CAP, ELECT 47-50V		J602	88-CL5-608-010	JACK, 3.6 S W/SW	
C770	87-010-194-080	CAP, CHIP 0.047		J603	88-CL5-607-010	JACK, PIN 2P	
C771	87-010-407-080	CAP, ELECT 33-50V		J651	87-099-608-010	JACK, DC HEC3800	
C772	87-010-194-080	CAP, CHIP 0.047		J801	87-033-239-010	TERMINAL, HSP-154V-2<350LH>	
C773	87-010-196-080	CHIP CAPACITOR, 0.1-25		J801	87-033-241-010	TERMINAL, ANT AJ-2039 <EXCEPT 350LH>	
C774	87-010-263-080	CAP, ELECT 100-10V					
C775	87-010-404-080	CAP, ELECT 4.7-50V		L451	87-007-342-010	COIL, OSC 85K BIAS	
C776	87-010-197-080	CAP, CHIP 0.01 DM		L601	87-005-366-010	COIL, 1UH<352EZ, 358EZ>	
C777	87-010-400-080	CAP, ELECT 0.47-50V		L602	87-005-366-010	COIL, 1UH<352EZ, 358EZ>	
C778	87-010-401-080	CAP, ELECT 1-50V		L603	87-005-366-010	COIL, 1UH<352EZ, 358EZ>	
C779	87-010-401-080	CAP, ELECT 1-50V		L604	87-005-366-010	COIL, 1UH<352EZ, 358EZ>	
C780	87-010-196-080	CHIP CAPACITOR, 0.1-25		L771	87-A50-266-010	COIL, FM DET-2N(TOK)	
C781	87-010-405-080	CAP, ELECT 10-50V		L773	87-A90-733-010	FLTR, PCFAZH-450 (TOK)	
C782	87-010-405-080	CAP, ELECT 10-50V		L781	87-005-847-080	COIL, 2.2UH(CECS)	
C783	87-010-197-080	CAP, CHIP 0.01 DM		L832	87-005-847-080	COIL, 2.2UH(CECS)	
C784	87-010-197-080	CAP, CHIP 0.01 DM		L851	87-005-847-080	COIL, 2.2UH(CECS)<352EZ, 358EZ>	
C785	87-010-403-080	CAP, ELECT 3.3-50V					
C786	87-010-403-080	CAP, ELECT 3.3-50V		L941	87-A50-020-010	COIL, ANT LW(COI)<EXCEPT 350LH>	
C789	87-010-186-080	CAP, CHIP 4700P		L942	87-A50-019-010	COIL, OSC LW(COI)<EXCEPT 350LH>	
C790	87-010-186-080	CAP, CHIP 4700P		L982	87-NF4-650-010	COIL, AM PACK 4N(TOK)<350LH>	
C791	87-010-405-080	CAP, ELECT 10-50V		L982	87-NF4-651-010	COIL, AM PACK2N(TOK)<EXCEPT 350LH>	
C793	87-010-177-080	C-CAP, S 820P-50 SL		R561	87-025-329-080	RESISTOR, 1/4W 2.2	
C794	87-010-406-080	CAP, ELECT 22-50		R562	87-025-329-080	RESISTOR, 1/4W 2.2	
C795	87-010-596-080	CAP, S 0.047-16		R567	87-025-329-080	RESISTOR, 1/4W 2.2	
C796	87-010-403-080	CAP, ELECT 3.3-50V		R568	87-025-329-080	RESISTOR, 1/4W 2.2	
C797	87-010-182-080	C-CAP, S 2200P-50 B		TC942	87-011-221-080	CAP, TRIMMER 30P<EXCEPT 350LH>	
C798	87-010-182-080	C-CAP, S 2200P-50 B		X721	87-A70-061-010	VIB, XTAL 4.500MHZ CSA-309	
C799	87-010-194-080	CAP, CHIP 0.047		X851	87-A70-091-010	VIB, XTAL 4.332MHZ CSA-309 <352EZ, 358EZ>	
C812	87-010-197-080	CAP, CHIP 0.01 DM					
C814	87-010-197-080	CAP, CHIP 0.01 DM					
C820	87-010-408-080	CAP, ELECT 47-50V					
C821	87-010-197-080	CAP, CHIP 0.01 DM		FRONT C.B			
C822	87-010-197-080	CAP, CHIP 0.01 DM		C201	87-010-263-080	CAP, ELECT 100-10V	
C823	87-010-197-080	CAP, CHIP 0.01 DM		C202	87-010-370-040	CAP, E 330-6.3 SME	
				C203	87-010-197-080	CAP, CHIP 0.01 DM	

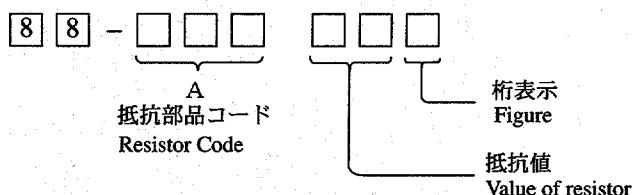
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C204	87-010-196-080		CHIP CAPACITOR, 0.1-25	C145	87-010-196-080		CHIP CAPACITOR, 0.1-25
C208	87-010-197-080		CAP, CHIP 0.01 DM	C146	87-010-101-080		CAP, ELECT 220-16
C210	87-010-196-080		CHIP CAPACITOR, 0.1-25	C148	87-010-314-080		C-CAP, S 22P-50V
C211	87-010-400-080		CAP, ELECT 0.47-50V	C149	88-700-910-810		CAP, M 0.1-50 J
C212	87-010-312-080		C-CAP, S 15P-50 CH	C150	87-010-314-080		C-CAP, S 22P-50V
C213	87-010-320-080		CHIP CAP 68P	C151	87-010-263-080		CAP, ELECT 100-10V
C214	87-010-316-080		C-CAP, S 33P-50 CH	C153	87-010-196-080		CHIP CAPACITOR, 0.1-25
C215	87-010-312-080		C-CAP, S 15P-50 CH	C154	87-010-196-080		CHIP CAPACITOR, 0.1-25
C216	87-010-314-080		C-CAP, S 22P-50V	C155	87-010-196-080		CHIP CAPACITOR, 0.1-25
C217	87-010-401-080		CAP, ELECT 1-50V	C156	87-010-196-080		CHIP CAPACITOR, 0.1-25
C218	87-010-197-080		CAP, CHIP 0.01 DM	C157	87-010-196-080		CHIP CAPACITOR, 0.1-25
C219	87-010-263-080		CAP, ELECT 100-10V	C158	87-010-263-080		CAP, ELECT 100-10V
CN204	88-CL5-621-010		CONN ASSY, 9P V DECK	C159	87-010-196-080		CHIP CAPACITOR, 0.1-25
L201	87-005-847-080		COIL, 2.2UH(CECS)	C160	87-010-221-080		CAP, ELECT 470-10V
L202	87-005-847-080		COIL, 2.2UH(CECS)	C161	87-010-196-080		CHIP CAPACITOR, 0.1-25
LCD201	88-CL5-605-010		LCD, AIW4124-30PIN	C164	87-010-405-080		CAP, ELECT 10-50V
S201	87-A90-770-080		SW, TACT TRT134-L4.3	C165	87-010-405-080		CAP, ELECT 10-50V
S202	87-A90-770-080		SW, TACT TRT134-L4.3	C166	87-012-154-080		C-CAP, S 150P-50 CH
S203	87-A90-770-080		SW, TACT TRT134-L4.3	C167	87-010-380-080		CAP, ELECT 47-16V<350LH>
S204	87-A90-770-080		SW, TACT TRT134-L4.3	C170	87-010-404-080		CAP, ELECT 4.7-50V
S205	87-A90-770-080		SW, TACT TRT134-L4.3	C172	87-010-182-080		C-CAP, S 2200P-50 B<350LH>
S206	87-A90-770-080		SW, TACT TRT134-L4.3	C173	87-010-182-080		C-CAP, S 2200P-50 B<350LH>
S207	87-A90-770-080		SW, TACT TRT134-L4.3	C175	87-010-404-080		CAP, ELECT 4.7-50V
S208	87-A90-770-080		SW, TACT TRT134-L4.3	C176	88-700-780-810		CAP, M 0.33-50 J LDS
S209	87-A90-770-080		SW, TACT TRT134-L4.3	C177	87-010-178-080		C-CAP, S 1000P-50 K B
S210	87-A90-770-080		SW, TACT TRT134-L4.3	C178	87-010-178-080		C-CAP, S 1000P-50 K B
S211	87-A90-770-080		SW, TACT TRT134-L4.3	C181	87-010-198-080		CAP, CHIP 0.022
S211	87-A90-770-080		SW, TACT TRT134-L4.3	C182	87-010-263-080		CAP, ELECT 100-10V
S212	87-A90-770-080		SW, TACT TRT134-L4.3	C183	87-010-197-080		CAP, CHIP 0.01 DM
S213	87-A90-770-080		SW, TACT TRT134-L4.3	C184	87-010-380-080		CAP, ELECT 47-16V
S214	87-A90-770-080		SW, TACT TRT134-L4.3	C191	87-012-365-080		C-CAP, S 0.027-25VBK
S214	87-A90-770-080		SW, TACT TRT134-L4.3	C192	87-010-401-080		CAP, ELECT 1-50V
S215	87-A90-770-080		SW, TACT TRT134-L4.3	C194	87-010-196-080		CHIP CAPACITOR, 0.1-25
S216	87-A90-770-080		SW, TACT TRT134-L4.3	CN102	88-CL5-610-010		CONN ASSY, 6P V
S217	87-A90-770-080		SW, TACT TRT134-L4.3	FB101	87-003-216-080		F-BEAD, BL01RM1
S218	87-A90-770-080		SW, TACT TRT134-L4.3	FB102	87-003-216-080		F-BEAD, BL01RM1
S219	87-A90-770-080		SW, TACT TRT134-L4.3	L113	87-005-847-080		COIL, 2.2UH(CECS)
X201	87-030-194-080		XTAL 32.768KHZ	L115	87-005-847-080		COIL, 2.2UH(CECS)
X202	87-A70-070-080		VIB, CER 5.76MHZ CRHF	R150	87-029-370-010		RES, FUSE 2.2-1/2W
				W101	88-CL5-611-010		FF-CABLE, 16P 1.0
CD C.B				X101	81-592-641-010		CERAMIC FILTER, 16.93MHZ
C101	87-010-406-080		CAP, ELECT 22-50	LED C.B			
C102	87-010-178-080		CHIP CAP 1000P	D945	87-CL5-602-010		LED, SLR342-MG3F
C109	87-010-180-080		C-CAP 1500P-50B	D946	87-CL5-602-010		LED, SLR342-MG3F
C110	87-010-401-080		CAP, ELECT 1-50V	D946	87-CL5-602-010		LED, SLR342-MG3F
C113	87-010-263-080		CAP, ELECT 100-10V	D947	87-CL5-602-010		LED, SLR342-MG3F
C114	87-010-176-080		C-CAP, S 680P-50 SL	D948	87-CL5-602-010		LED, SLR342-MG3F
C116	87-010-178-080		CHIP CAP 1000P	D949	87-CL5-602-010		LED, SLR342-MG3F
C117	87-012-140-080		CAP 470P	D950	87-CL5-602-010		LED, SLR342-MG3F
C118	87-010-545-080		CAP, M 0.22-50 J	D951	87-CL5-602-010		LED, SLR342-MG3F
C120	87-010-406-080		CAP, ELECT 22-50	D952	87-CL5-602-010		LED, SLR342-MG3F
C121	87-010-403-080		CAP, ELECT 3.3-50V	D953	87-CL5-602-010		LED, SLR342-MG3F
C122	87-010-186-080		CAP, CHIP 4700P	AC C.B			
C123	87-010-147-080		C-CAP, S 3P-50 CH	D949	87-CL5-602-010		LED, SLR342-MG3F
C125	87-010-236-080		CAP, E 1000-10 SME	D950	87-CL5-602-010		LED, SLR342-MG3F
C126	87-010-313-080		CAP, CHIP 18P	D951	87-CL5-602-010		LED, SLR342-MG3F
C128	87-010-178-080		CHIP CAP 1000P	D952	87-CL5-602-010		LED, SLR342-MG3F
C129	87-010-380-080		CAP, ELECT 47-16V	D953	87-CL5-602-010		LED, SLR342-MG3F
C130	87-010-197-080		CAP, CHIP 0.01 DM	MOTOR C.B			
C131	87-010-263-080		CAP, ELECT 100-10V	M2	9X-262-513-210		SLED MOTOR ASSY
C132	87-010-405-080		CAP, ELECT 10-50V	PIN3	91-564-722-110		CONNECTOR 6P
C133	87-010-401-080		CAP, ELECT 1-50V	SW1	91-572-085-110		LEAF SW
C134	87-010-197-080		CAP, CHIP 0.01 DM	DECK C.B			
C136	87-010-263-080		CAP, ELECT 100-10V	CN1	87-009-352-019		CONN, 9P H WHT PH
C137	87-010-198-080		CAP, CHIP 0.022	SFR1	87-024-581-019		SFR, 3.3K H KVSF637A
C138	87-010-762-080		CAP E220-10 BP	SOL1	82-ZM1-634-010		SOL ASSY, 23K
C139	87-010-197-080		CAP, CHIP 0.01 DM	SW2	87-A90-248-019		SW, MICRO ESE11SH2CXQ
C140	87-010-380-080		CAP, ELECT 47-16V	SW3	87-A90-248-019		SW, MICRO ESE11SH2CXQ
C141	87-010-196-080		CHIP CAPACITOR, 0.1-25				

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
SW5	87-A90-248-019		SW, MICRO ESE11SH2CXQ				RELAY C.B
SW6	87-A90-248-019		SW, MICRO ESE11SH2CXQ	CN351	88-CL5-613-010		CONN ASSY, 8P RPEH

- コネクタについては、初回発注の扱いとはせず、受注後に業者へ発注し、供給致します。
- Regarding connectors, they are not stocked as they are not the initial order items.
- The connectors are available after they are supplied from connector manufacturers upon the order is received.

○ チップ抵抗部品コード / CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



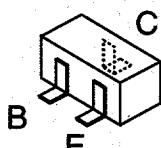
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法 / Dimensions (mm)			抵抗コード : A Resistor Code : A
				外形 / Form	L	W	
1/16W	1608	5%	CJ		1.6	0.8	0.45
1/10W	2125	5%	CJ		2	1.25	0.45
1/8W	3216	5%	CJ		3.2	1.6	0.55

TRANSISTOR ILLUSTRATION



ECB
2SA952
2SC2001



2SA1037
2SC2714
2SC3052
CSD1306
DTA114YK
DTA143EK
DTC124XK
RT1N141C
RT1P144C
RN1410



ECB
2SA1296
KTC3198



BCE
2SA1317
2SB1655



ECB
2SA1993
2SC4115
2SC5395
DTA144ES
DTC144ES



2SC2240
2SC3331

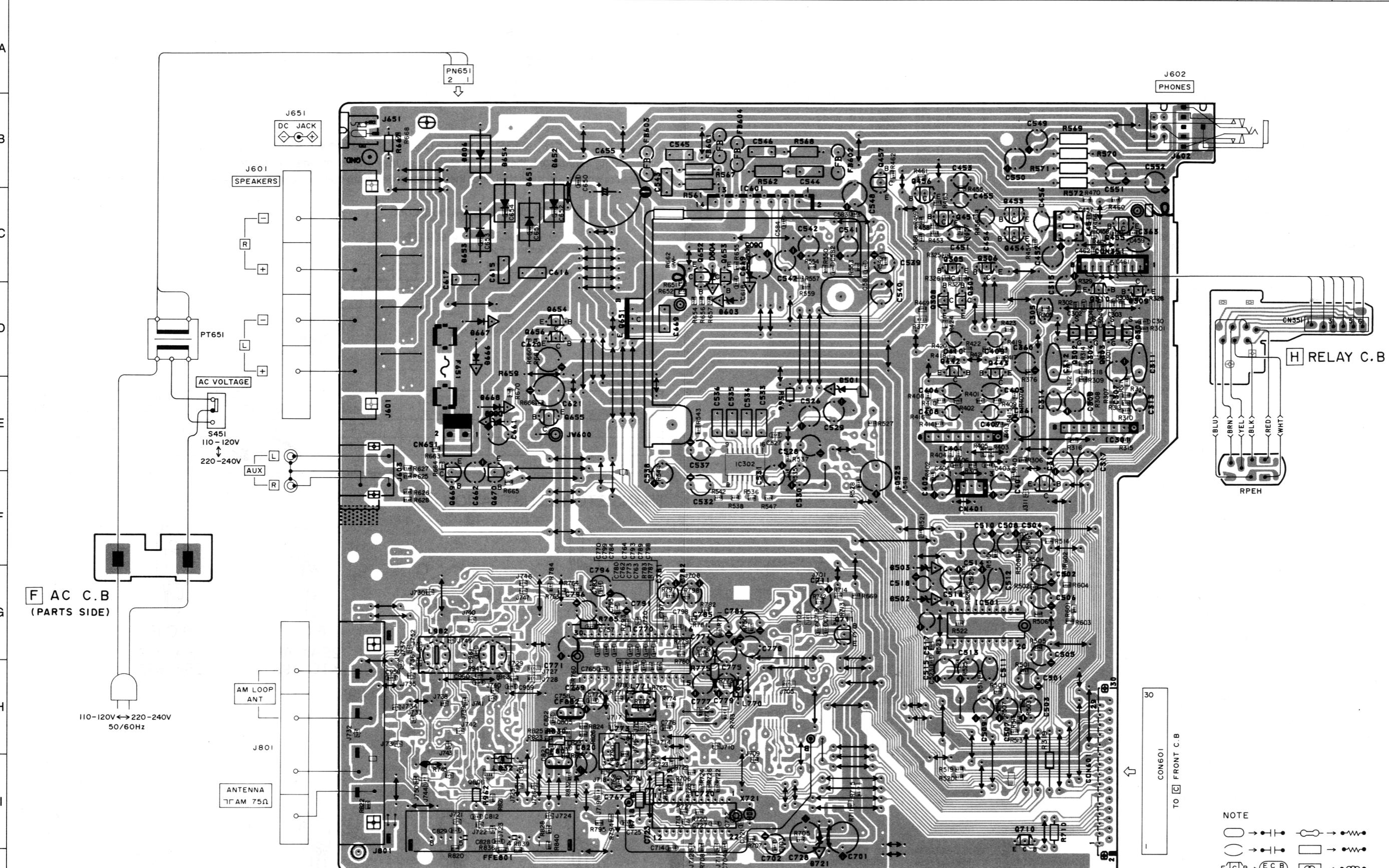


DSG
2SJ460
2SK2541

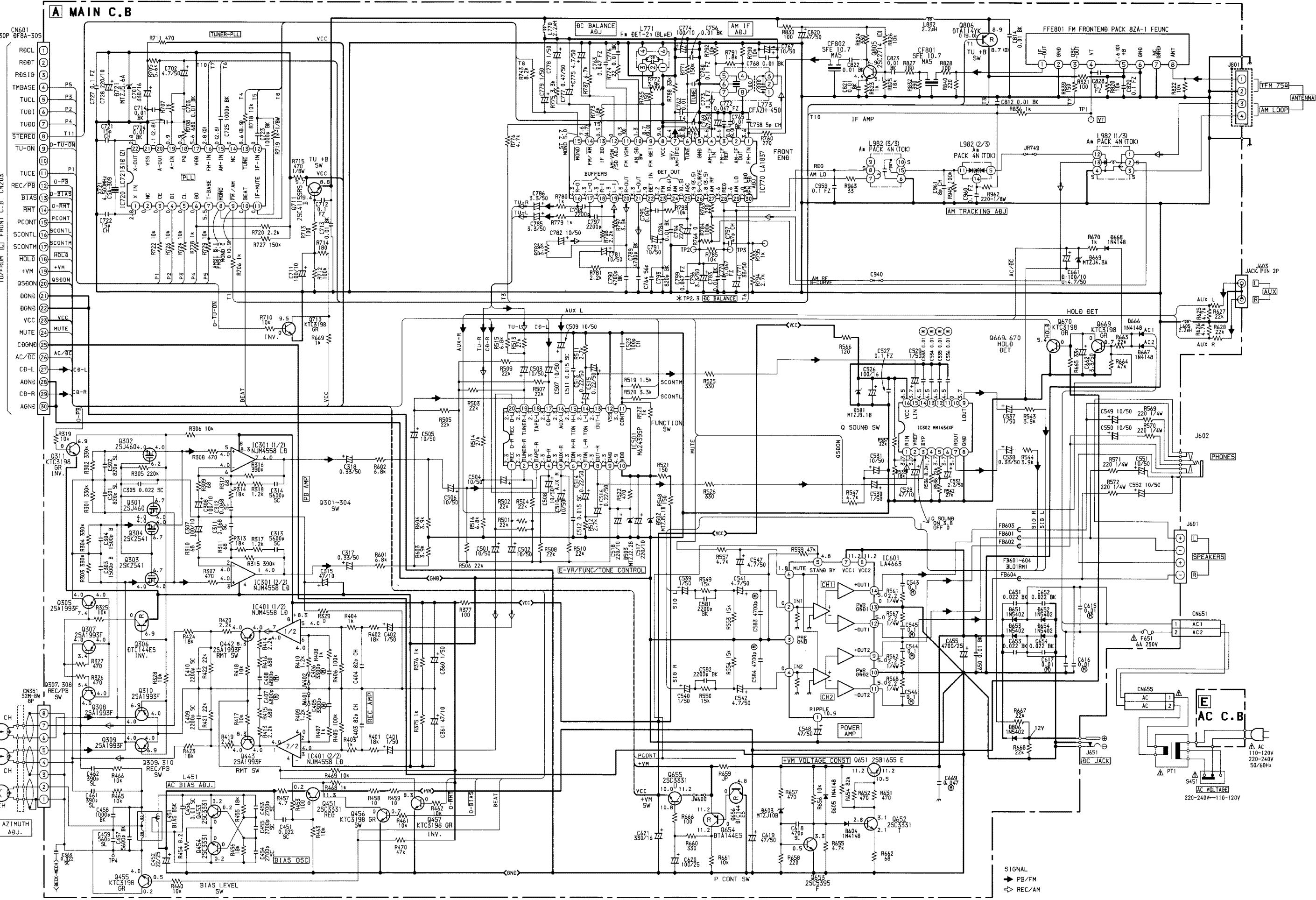


2SK543

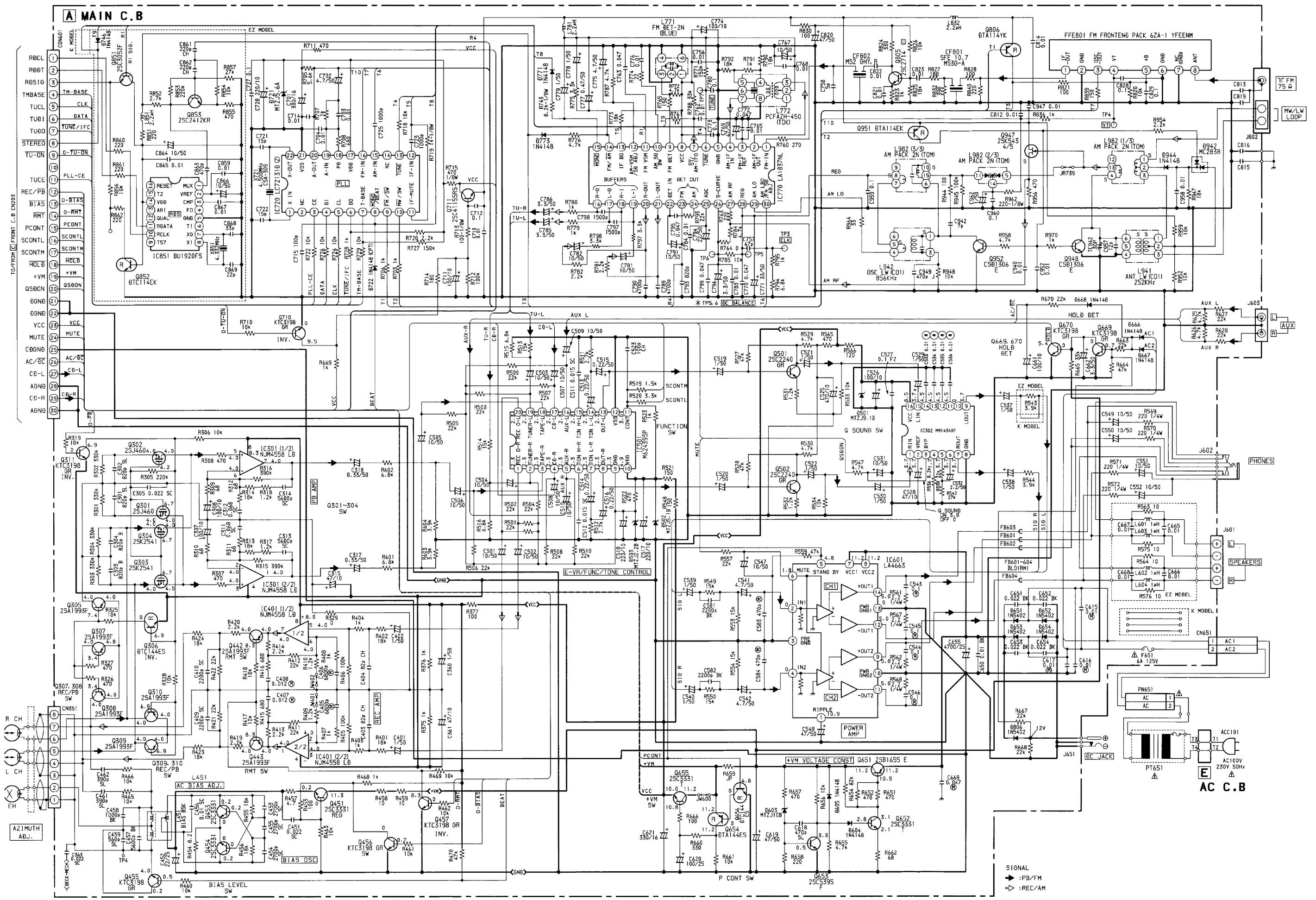
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |



A MAIN C.B (PARTS SIDE



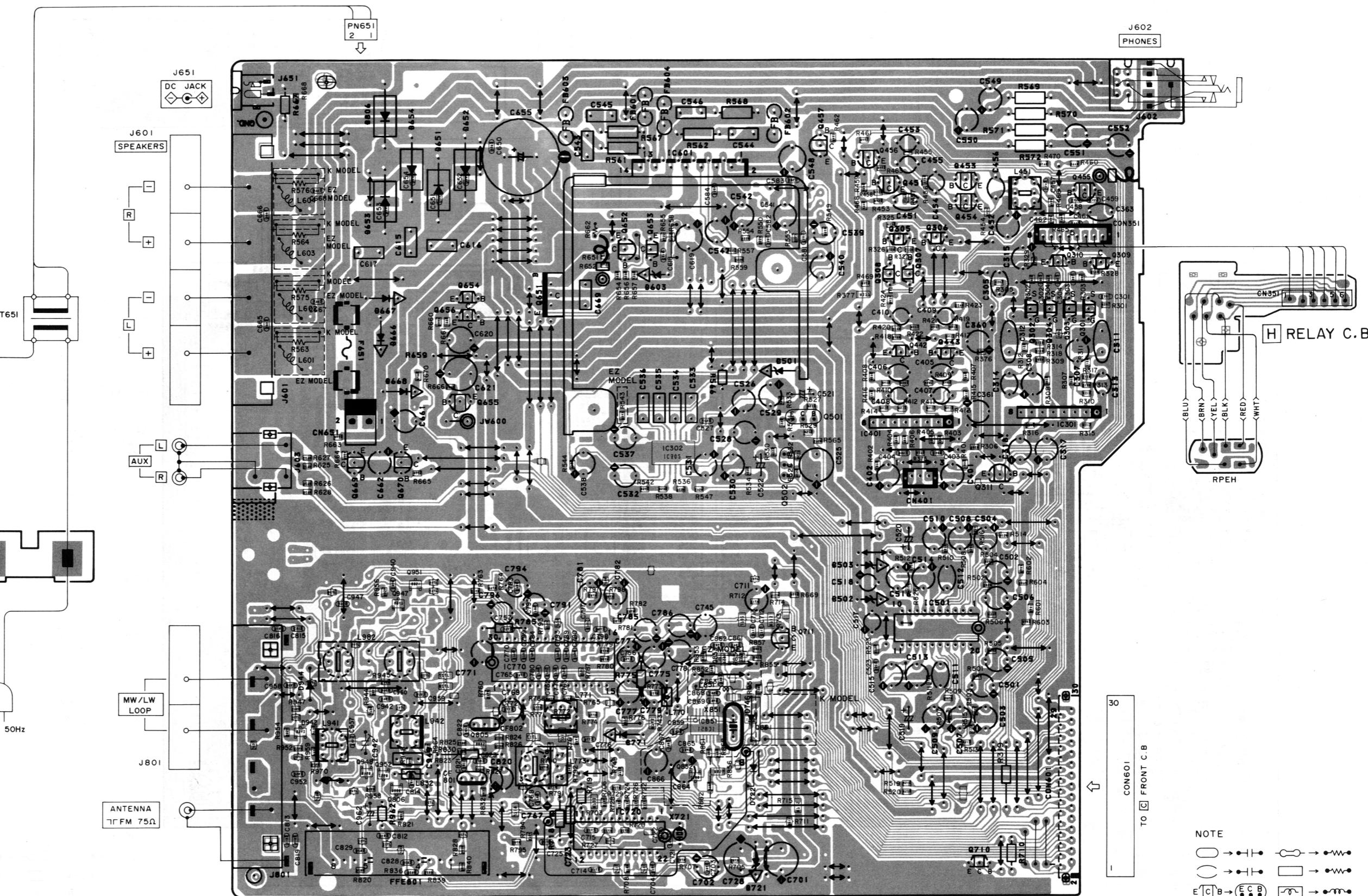
SCHEMATIC DIAGRAM-2 (MAIN: K, EZ)



WIRING-2 (MAIN: K, EZ)

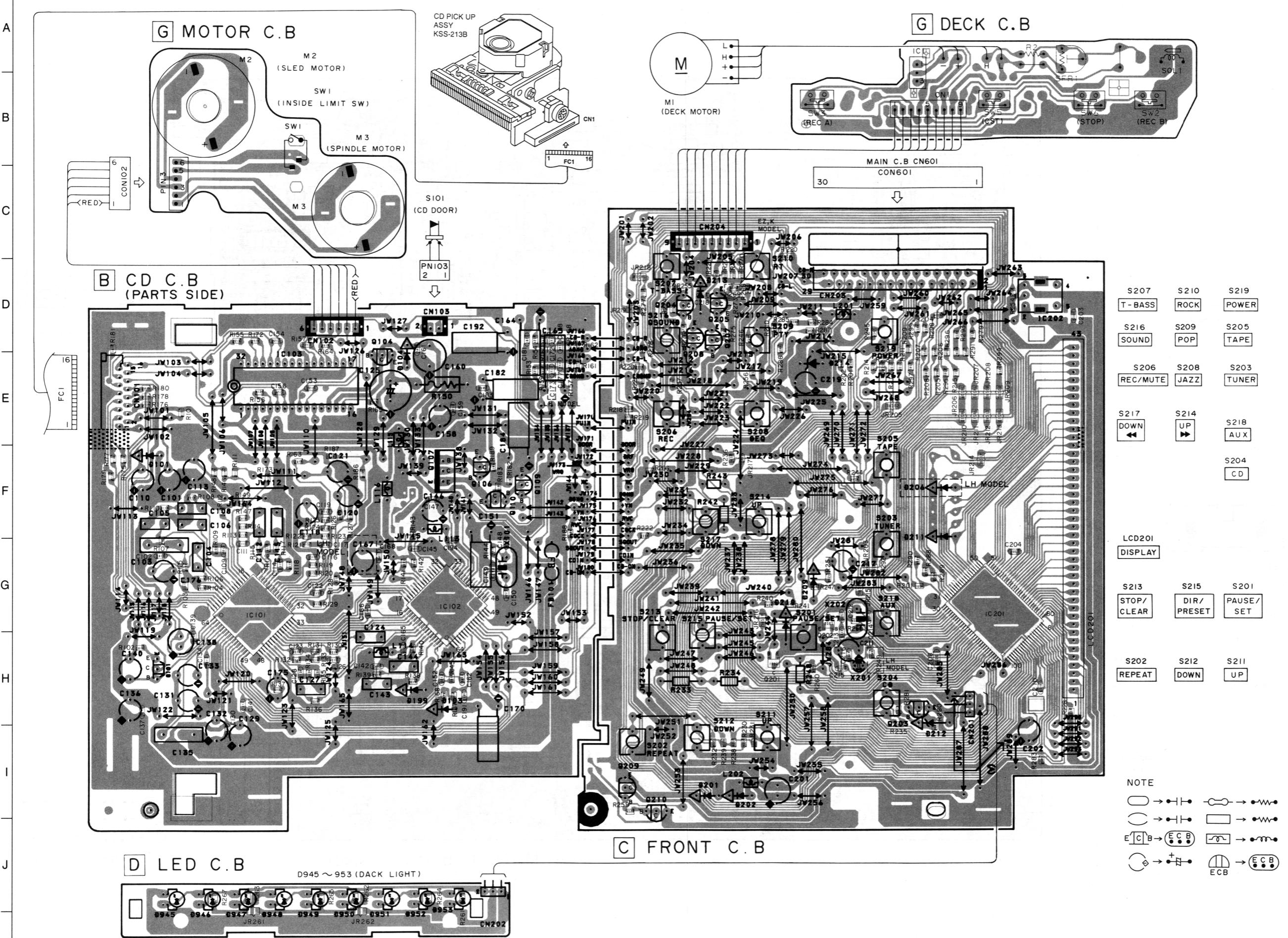
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14

A
B
C
D
E
F
G
H
I
J

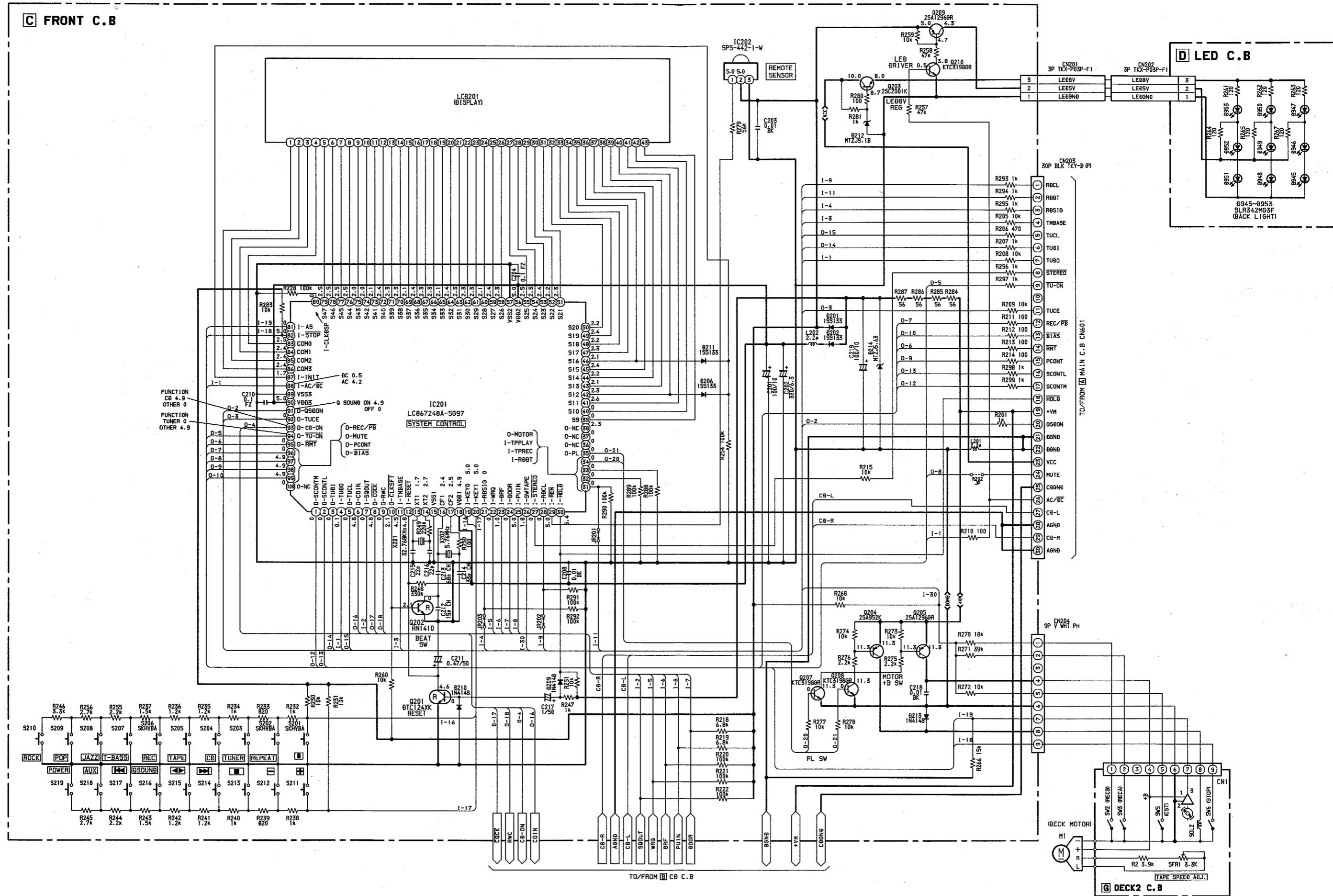


A MAIN C.B (PARTS SIDE)

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

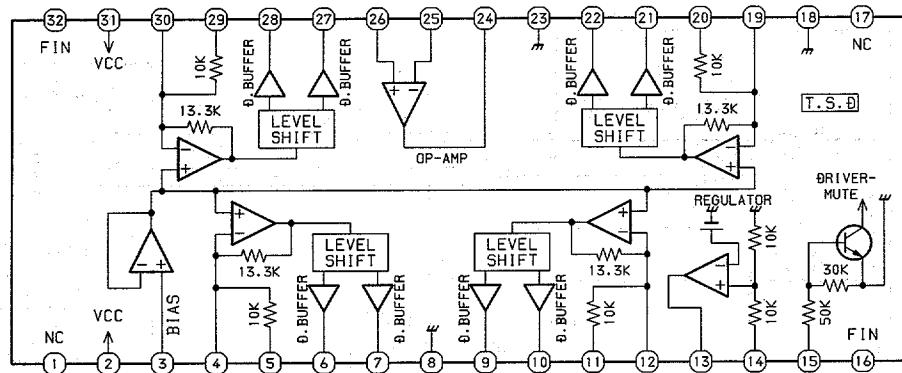


SCHEMATIC DIAGRAM-3 (FRONT)



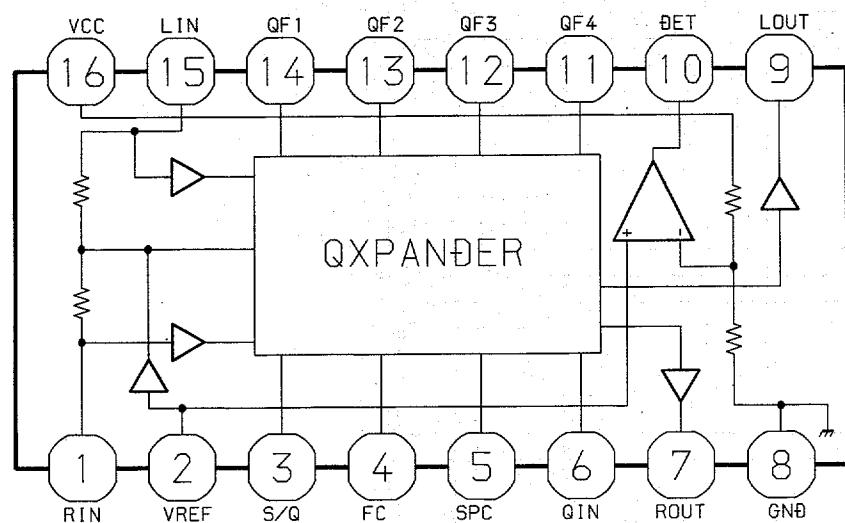
IC BLOCK DIAGRAM

IC, BA6898S

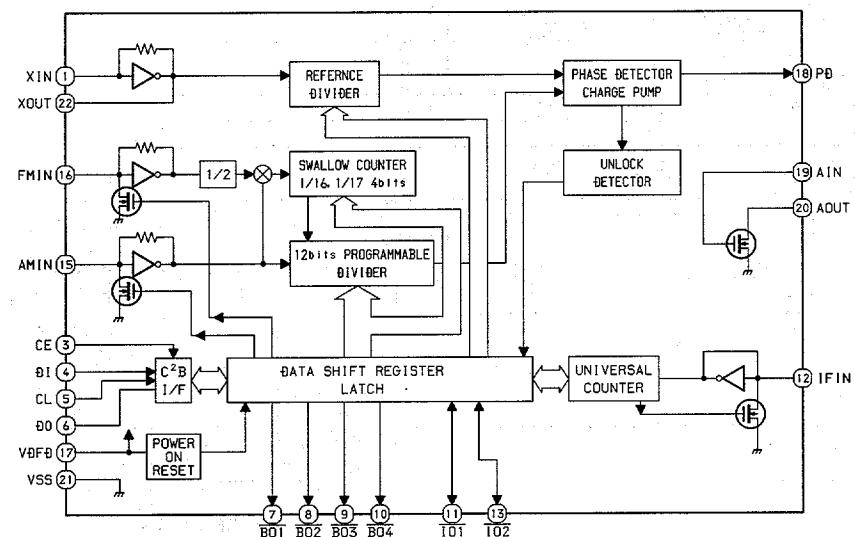


T.S.D: Thermal shift down circuit
9.BUFFER: Drive Buffer

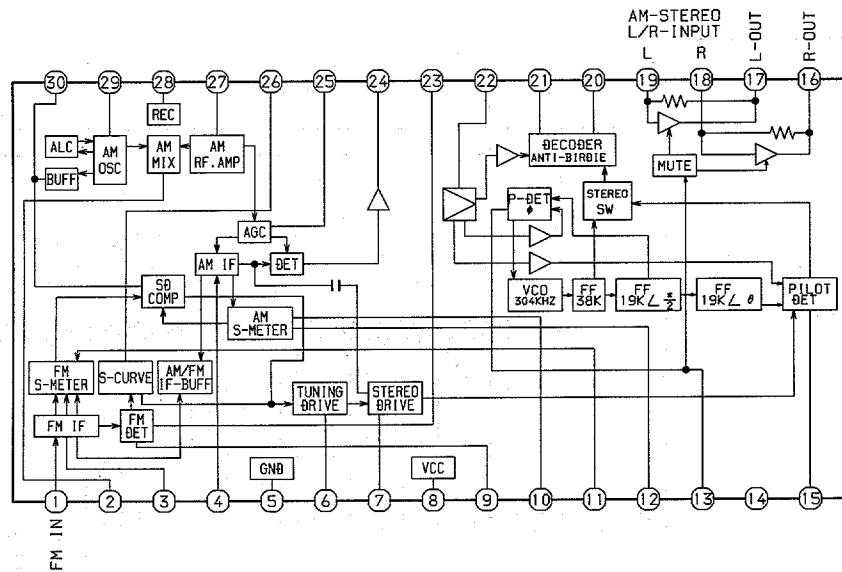
IC, MM1434XF



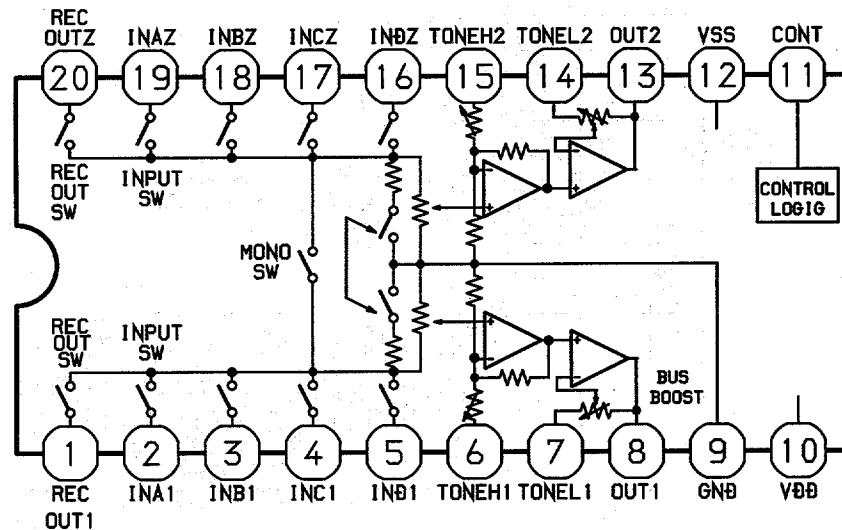
IC, LC72131



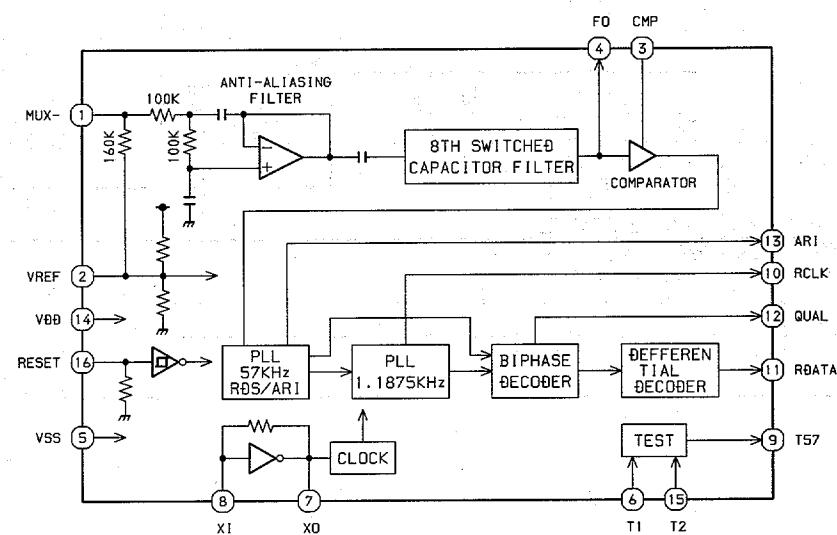
IC, LA1837



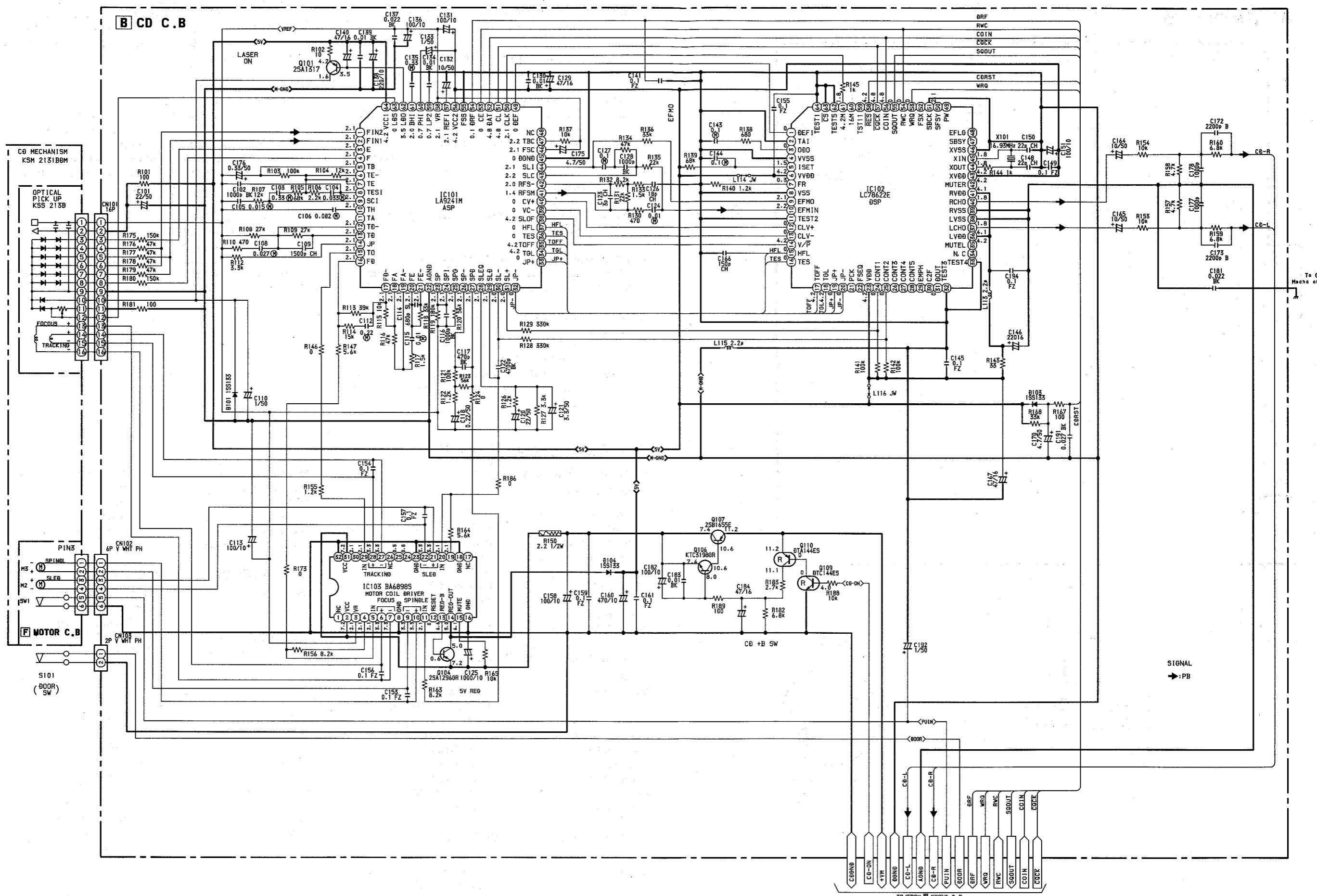
IC, M62439SP



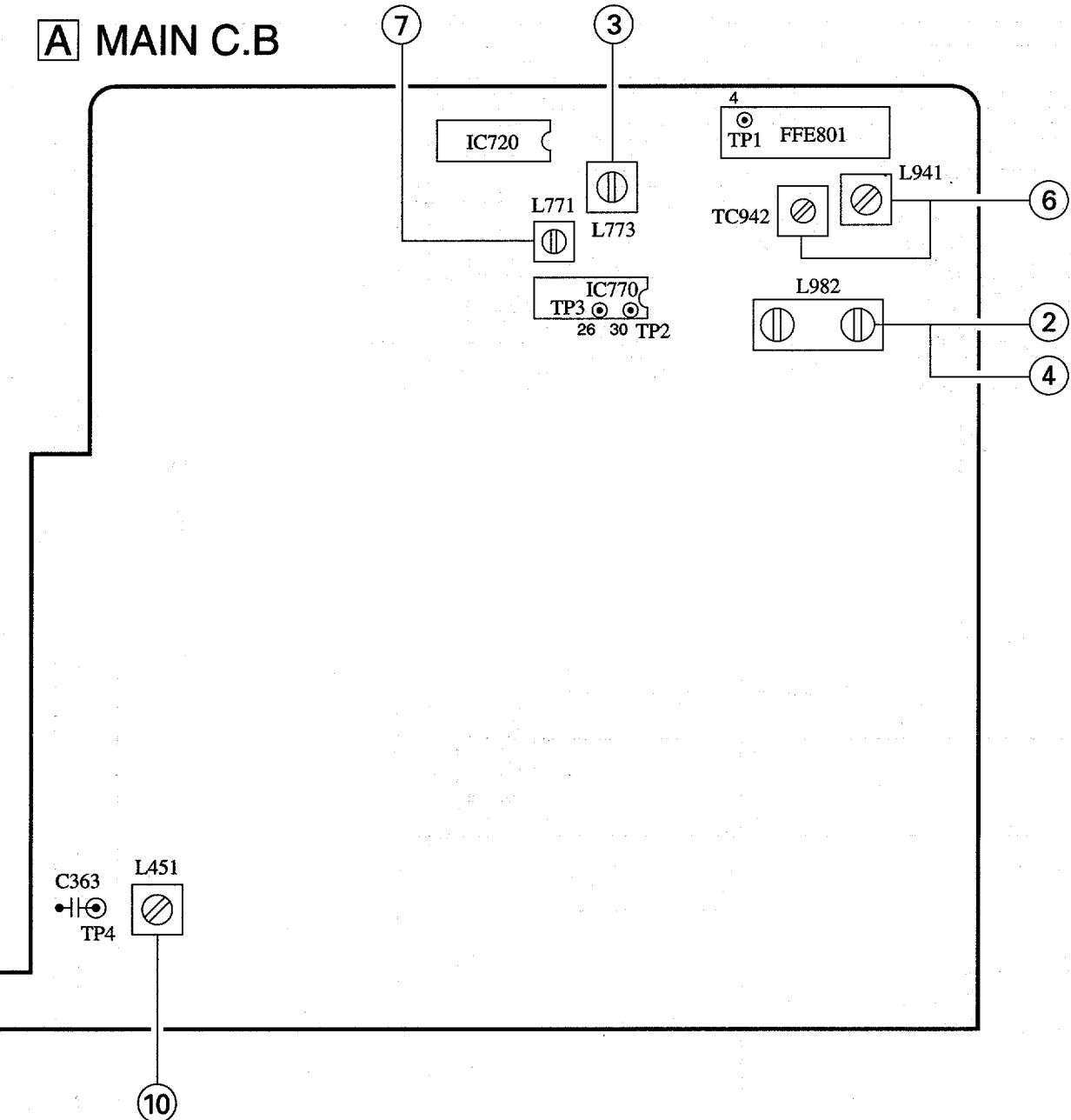
IC, BU1920FS



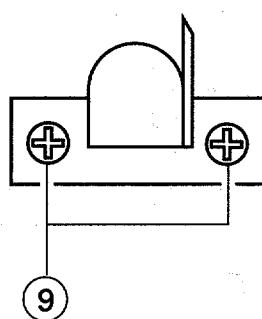
SCHEMATIC DIAGRAM-4 (CD)



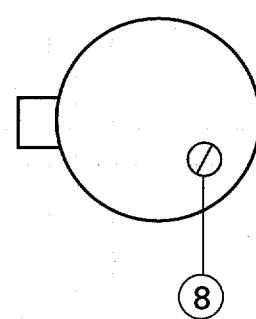
ELECTRICAL ADJUSTMENT



RPEH



M1



< TUNER SECTION >

1. AM VT Check (LH MODEL)

Settings: • Test point: TP1

Method: Set to AM 530kHz check that the test point becomes 1.3 ± 0.1 V.

2. MW Tracking Adjustment (K, EZ MODELS)

L982 603kHz

3. AM (MW) IF Adjustment

L773 450kHz

4. AM Tracking Adjustment (LH MODEL)

L982 600kHz

5. FM VT Check

Settings: • Test point: TP1

Method: Set to FM 87.5MHz check that the test point is 4.0 ± 0.1 V.

6. LW Tracking Adjustment (K, EZ MODELS)

L941 144kHz

TC942 290kHz

7. DC Balance/MONO Distortion Adjustment

Settings: • Test point: TP2, TP3

• Adjustment location: L771

• Input level: 60dB

Method: Set to FM 98.0MHz and adjust L771 so that the voltage between TP2 and TP3 becomes $0V \pm 20mV$.

< TAPE SECTION >

8. Tape speed Adjustment

Settings: • Test tape: TTA-100

• Adjustment location: SFR of deck motor.

Method: Play back the test tape with DECK1 and adjust SFR of deck motor so that the output frequency is 3000Hz.

9. Azimuth Adjustment

Settings: • Test tape: TTA-320

• Adjustment location: Head azimuth adjustment screw

Method: Play back the 8kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

10. AC Bias Adjustment

Settings: • Test tape: TTA-602

• Test point: TP4

• Adjustment location: L451

Method: Set up the recording mode. Adjust L451 so that the TP4 becomes 56 ± 1 kHz.

PRACTICAL SERVICE FIGURE

< TUNER SECTION >

< FM SECTION >

IHF Sensitivity:	$15dB \pm 5dB$ (at 90MHz)
(THD 3%)	$14dB \pm 5dB$ (at 98.0/108.0MHz)
Signal to noise ratio:	More than 50dB (Input 54dB)
Distortion:	Less than 2.0% (Input 54dB)
Auto stop level:	$25 \pm 10dB$ (at 98.0MHz)
Stereo separation:	More than 25dB (at 98.0MHz)
Intermediate frequency:	10.7MHz

< AM SECTION > (LH MODEL)

Sensitivity: (S/N 10dB)	$46dB \pm 5dB$ (at 600kHz) $44dB \pm 5dB$ (at 999kHz) $42dB \pm 5dB$ (at 1404kHz)
Signal to noise ratio: (Input 74dB)	More than 38dB (at 1000kHz)
Distortion:	Less than 4.0% (Input 74dB)
Auto stop level:	$35 \sim 60dB$ (at 1000kHz)
Intermediate frequency:	450kHz

< MW SECTION > (K, EZ MODELS)

Sensitivity: (S/N 10dB)	$46dB \pm 5dB$ (at 603kHz) $44dB \pm 5dB$ (at 999kHz) $42dB \pm 5dB$ (at 1404kHz)
----------------------------	-----------------------------------------------------------------------------------------

Signal to noise ratio:
(Input 74dB)

More than 38dB
(at 999kHz)

Distortion:
(Input 74dB)

Less than 2.0%
(at 999kHz)

Auto stop level:

35-60dB (at 999kHz)

Intermediate frequency:

450kHz

< LW SECTION > (K, EZ MODELS)

Sensitivity:	$58 \pm 5dB$ (at 160kHz) $55 \pm 5dB$ (at 200kHz) $52 \pm 5dB$ (at 280kHz)
Signal to noise ratio:	More than 25dB (at 198kHz)

Intermediate frequency:

450kHz

< DECK SECTION >

Tape speed:
3000Hz+3%/-2%

Wow & flutter:
Less than 0.35%
(JIS, R.M.S)

Distortion:
Less than 3.0% (PB)
Less than 7.0% (REC)

Signal to noise ratio:
More than 40dB (PB)
More than 35dB (REC/PB)

Erasing ratio:
More than 55dB

Cross talk:
More than 50dB

Separation:
More than 35dB

IC DESCRIPTION

IC, LC867248A

Pin No.	Pin Name	I/O	Description
1	O-SCONTM	O	M62439SP control.
2	O-SCONTL	O	
3	O-TUDI	O	Tuner control.
4	I-TUDO	I	Tuner control.
5	O-TUCL	O	Tuner control.
6	O-COIN	O	CD control.
7	I-SQOUT	I	CD control.
8	O-CQCK	O	CD control.
9	O-RWC	O	
10	O-CLKSFT	O	Clock shift output. "L" during shift.
11	I-TMBASE	I	8 Hz time base input.
12	I-RESET	I	Reset input.
13, 14	XT1, XT2	I/O	Sub clock input/output 32.768kHz.
15	VSS1	—	GND.
16, 17	CF1, CF2	I/O	Main clock input/output 5.76 MHz.
18	VDD1	—	+5V.
19	I-KEY0	I	KEY0 A/D input.
20	I-KEY1	I	KEY1 A/D input.
21	I-RDSIG	I	RDS signal level input. (A/D input)
22	I-WRQ	I	CD control.
23	I-DRF	I	
24	I-DOOR	I	CD door SW detection SW input. "L" at CLOSE.
25	I-PUIN	I	CD pick-up detection SW input. "L" at ON.
26	I-SWTAPE	I	Tape detection SW input. (A/D input)
27	I-STEREO	I	Monaural/stereo indication selector input. "L" at stereo.
28	I-RDCL	I	RDS clock input.
29	I-REM	I	Remote control input. (fall-down edge interrupt input)
30	I-HOLD	I	Hold mode detection. "L" at hold mode.
31	I-RDDT	I	RDS data input.
32	I-TPREC	I	Tape REC detection input. "H" at REC.
33	I-TPPLAY	I	Tape PLAY detection input. "H" at PLAY.
34	O-MOTOR	O	Mechanism deck motor ON/OFF output. "H" at ON.
35	O-PL	O	Mechanism deck plunger solenoid ON/OFF output. "H" at ON.
36-38	NC	O	Not used.
39-55	S9-S25	O	LCD SEG terminal Initial setting output. (S10 to S16)
56	VDD2	—	+5V.
57	VSS2	—	GND.
58-79	S26-S47	O	LCD SEG terminal .
80	I-CLKDSP	I	Watch indication select input "L": 12H. "H": 24H.
81	I-AS	I	Auto stop. counter input .
82	I-STOP	I	Tape stop input.

Pin No.	Pin Name	I/O	Description
83-86	COM0-COM3	O	LCD common output.
87	I-INIT	I	Initial setting input.
88	I-AC/DC	I	AC/DC detection input. "L" at DC.
89	VSS3	—	GND.
90	VDD3	—	5V.
91	O-QSDON	O	Q sound ON/OFF output. "H" at ON.
92	O-TUCE	O	Tuner chip enable output.
93	O-CD-ON	O	"H" output during CD function.
94	O-TU-ON	O	"H" output during TU function.
95	O-RMT	O	REC mute output. "H" during mute.
96	O-REC/PB	O	REC/PB select output. "H" during PB.
97	O-MUTE	O	Mute output. "H" during mute.
98	O-PCONT	O	Power control output. "H" at ON.
99	O-BIAS	O	REC bias ON/OFF output. "H" at ON.
100	NC	O	Not used.

IC, LA9241ML

Pin No.	Pin Name	I/O	Description
1	FIN2	I	Pin to which external pickup photo diode is connected. RF signal is created by adding with the FIN1 pin signal. FE signal is created by subtracting from the FIN1 pin signal.
2	FIN1	I	Pin to which external pickup photo diode is connected.
3	E	I	Pin to which external pickup photo diode is connected. TE signal is created by subtracting from the F pin signal.
4	F	I	Pin to which external pickup photo diode is connected.
5	TB	I	DC component of the TE signal is input.
6	TE-	I	Pin to which external resistor setting the TE signal gain is connected between the TE pin.
7	TE	O	TE signal output pin.
8	TESI	I	TES "Track Error Sense" comparator input pin. TE signal is passed through a band-pass filter then input.
9	SCI	I	Shock detection signal input pin.
10	TH	I	Tracking gain time constant setting pin.
11	TA	O	TA amplifier output pin.
12	TD-	I	Pin to which external tracking phase compensation constants are connected between the TD and VR pins.
13	TD	I	Tracking phase compensation setting pin.
14	JP	I	Tracking jump signal (kick pulse) amplitude setting pin.
15	TO	O	Tracking control signal output pin.
16	FD	O	Focusing control signal output pin.
17	FD-	I	Pin to which external focusing phase compensation constants are connected between the FD and FA pins.
18	FA	I	Pin to which external focusing phase compensation constants are connected between the FD- and FA- pins.
19	FA-	I	Pin to which external focusing phase compensation constants are connected between the FA and FE pins.
20	FE	O	FE signal output pin.
21	FE-	I	Pin to which external FE signal gain setting resistor is connected between the FE pin.
22	AGND	—	Analog signal GND.
23	NC	—	No connection.
24	SP	O	Single ended output of the CV+ and CV- pin input signal.
25	SPG	I	Pin to which external spindle gain setting resistor in 12 cm mode is connected.
26	SP-	I	Pin to which external spindle phase compensation constants are connected together with SPD pin.
27	SPD	O	Spindle control signal output pin.
28	SLEQ	I	Pin to which external sled phase compensation constants are connected.
29	SLD	O	Sled control signal output pin.
30, 31	SL-, SL+	I	Sled advance signal input pin from microprocessor.
32, 33	JP-, JP+	I	Tracking jump signal input pin from DSP.
34	TGL	I	Tracking gain control signal input from DSP. Low gain when TGL = H.
35	TOFF	I	Tracking off control signal input pin from DSP. Off when TOFF = H.

Pin No.	Pin Name	I/O	Description
36	TES	O	Pin from which TES signal is output to DSP.
37	HFL	O	"High Frequency Level" is used to judge whether the main beam position is on top of bit or on top of mirror.
38	SLOF	I	Sled servo off control input pin.
39, 40	CV-, CV+	I	CLV error signal input pin from DSP.
41	RFSM	O	RF output pin.
42	RFS-	I	RF gain setting and EFM signal 3T compensation constant setting pin together with RFSM pin.
43	SLC	O	"Slice Level Control" is the output pin which controls the RF signal data slice level by DSP.
44	SLI	I	Input pin which control the data slice level by the DSP.
45	DGND	—	Digital system GND.
46	FSC	O	Output pin to which external focus search smoothing capacitor is connected.
47	TBC	I	"Tracking Balance Control" EF balance variable range setting pin.
48	NC	—	No connection.
49	DEF	O	Disc defect detector output pin.
50	CLK	I	Reference clock input pin. 4.23 MHz of the DSP is input.
51	CL	I	Microprocessor command clock input pin.
52	DAT	I	Microprocessor command data input pin.
53	CE	I	Microprocessor command chip enable input pin.
54	DRF	O	"Detect RF" RF level detector output.
55	FSS	I	"Focus Search Select" focus search mode (\pm search/+ search) select pin.
56	VCC2	—	Servo system and digital system Vcc pin.
57	REFI	—	Pin to which external bypass capacitor for reference voltage is connected.
58	VR	O	Reference voltage output pin.
59	LF2	I	Disc defect detector time constant setting pin.
60	PH1	I	Pin to which external capacitor for RF signal peak holding is connected.
61	BH1	I	Pin to which external capacitor for RF signal bottom holding is connected.
62	LDD	O	APC circuit output pin.
63	LDS	I	APC circuit input pin.
64	VCC1	—	RF system Vcc pin.

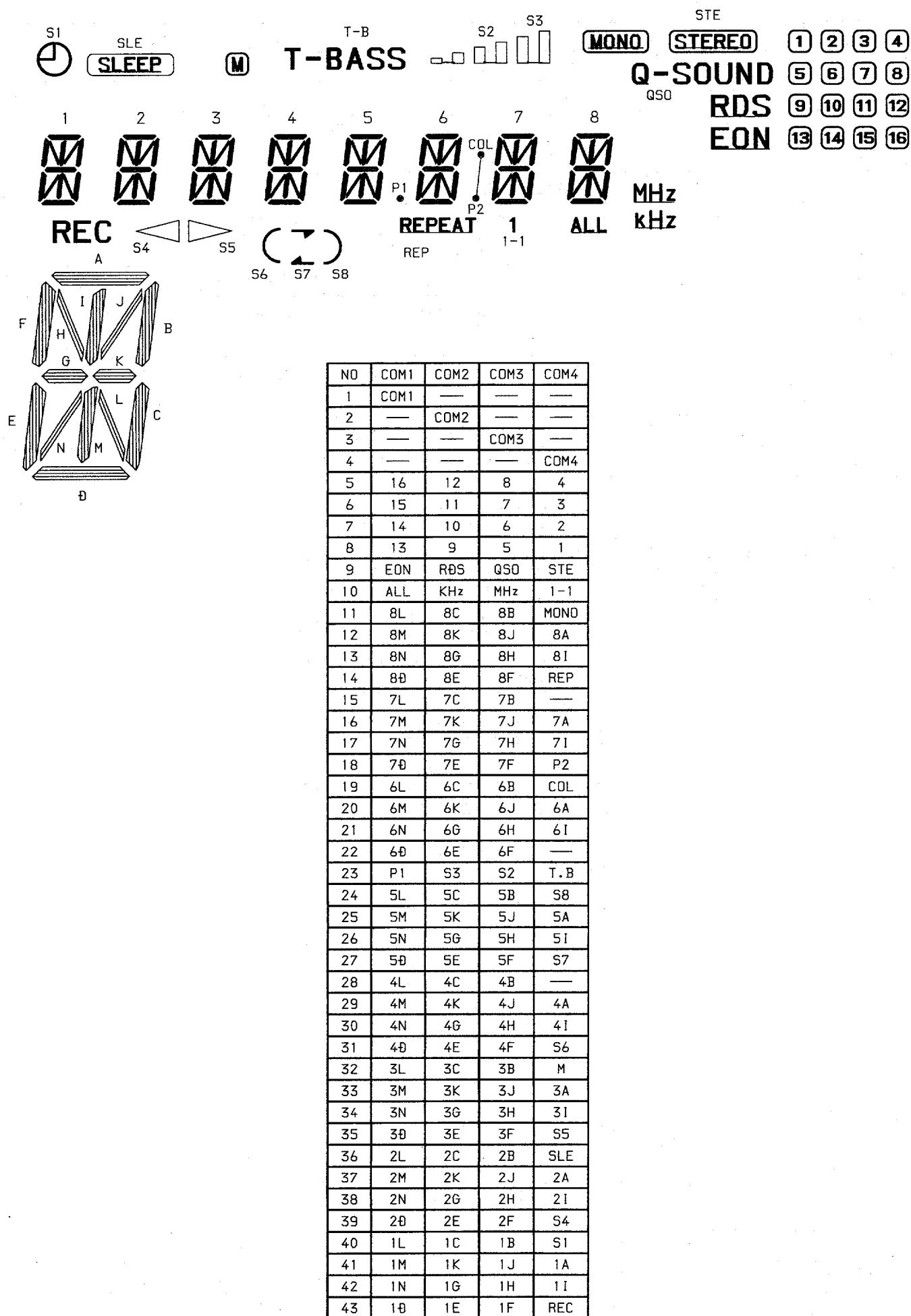
IC, LC78622E

Pin No.	Pin Name	I/O	Description	
1	DEFI	I	Defect sense signal (DEF) input pin. (Connect to 0V when not used).	
2	TAI	I	For PLL.	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
3	PDO	O		Phase comparator output pin to control external VCO.
4	VVSS	—		GND pin for built-in VCO. Be sure to connect to 0V.
5	ISET	I		Pin to which external resistor adjusting the PDO output current.
6	VVDD	—		Power supply pin for built-in VCO.
7	FR	I		Pin for VCO frequency range adjustment.
8	VSS	—		Digital system GND. Be sure to connect to 0V.
9	EFMO	O	For slice level control.	EFM signal output pin.
10	EFMIN	I		EFM signal input pin.
11	TEST2	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
12, 13	CLV+, CLV-	O	Disc motor control output. Three level output is possible using command.	
14	V/P	O	Rough servo or phase control automatic selection monitoring output pin. Rough servo at H. Phase servo at L.	
15	HFL	I	Track detect signal input pin. Schmidt input.	
16	TES	I	Tracking error signal input pin. Schmidt input.	
17	TOFF	O	Tracking OFF output pin.	
18	TGL	O	Tracking gain selection output pin. Gain boost at L.	
19, 20	JP+, JP-	O	Track jump control signal output pin. Three level output is possible using command.	
21	PCK	O	EFM data playback clock monitoring pin 4.3218 MHz when phase is locked in.	
22	FSEQ	O	Sync signal detection output pin. H when the sync signal which is detected from EFM signal and the sync signal which is internally generated agree.	
23	VDD	—	Digital system power supply pin.	
24-28	SL+ - PUIN	I/O	General purpose input/output pin 1 to 5.	The pin is controlled by the serial data command from microprocessor. When the pin is not used, set the pin to the input terminal and connect to 0V, or alternately set the pin to output terminal and leave the pin open.
29	EMPH	O	De-emphasis monitor output pin. De-emphasis disc is being played back at H.	
30	C2F	O	C2 flag output pin.	
31	DOUT	O	DIGITAL OUT output pin. (EIAJ format).	
32, 33	TEST3, TEST4	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
34	N.C.	—	Not used. Set the pin to open.	
35	MUTEL	O	L-channel 1-bit DAC.	L-channel mute output pin.
36	LVDD	—		L-channel power supply pin.
37	LCHO	O		L-channel output pin.
38	LVSS	—		L-channel GND. Be sure to connect to 0V.
39	RVSS	—	R-channel 1-bit DAC.	R-channel GND. Be sure to connect to 0V.
40	RCHO	O		R-channel output pin.
41	RVDD	—		R-channel power supply pin.
42	MUTER	O		R-channel mute output pin.

Pin No.	Pin Name	I/O	Description
43	XVDD	—	Crystal oscillator power supply pin.
44	XOUT	O	
45	XIN	I	Pin to which external 16.9344 MHz crystal oscillator is connected.
46	XVSS	—	Crystal oscillator GND pin. Be sure to connect to 0V.
47	SBSY	O	Subcode block sync signal output pin.
48	EFLG	O	C1, C2, single and dual correction monitoring pin.
49	PW	O	Subcode P, Q, R, S, T, U and W output pin.
50	SFSY	O	Subcode frame sync signal output pin. Falls down when subcode enters standby.
51	SBCK	I	Subcode read clock input pin. Schmidt input. (Be sure to connect to 0V when not in use.)
52	FSX	O	Pin outputting the 7.35 kHz sync signal which is generated by dividing frequency of crystal oscillator.
53	WRQ	O	Subcode Q output standby output pin.
54	RWC	I	Read/write control input pin. Schmidt input.
55	SQOUT	O	Subcode Q output pin.
56	COIN	I	Command input pin from microprocessor.
57	<u>CQCK</u>	I	Command input read clock or subcode read input clock from SQOUT pin
58	<u>RES</u>	I	LC78622 reset input pin. Set this pin to L once when the main power is turned on.
59	TST11	O	Test signal output pin. Use this pin as open (normally L output).
60	16M	O	16.9344 MHz output pin.
61	4.2M	O	4.2336 MHz output pin.
62	TEST5	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
63	<u>CS</u>	I	Chip select signal input pin with built-in pull-down resistor. Be sure to connect to 0V while it is not controlling.
64	TEST1	I	Test signal input pin without built-in pull-down resistor. Be sure to connect to 0V.

Note: The same potential must be applied to the respective power supply terminals. (VDD, VVDD, LVDD, RVDD, XVDD)

LCD DISPLAY

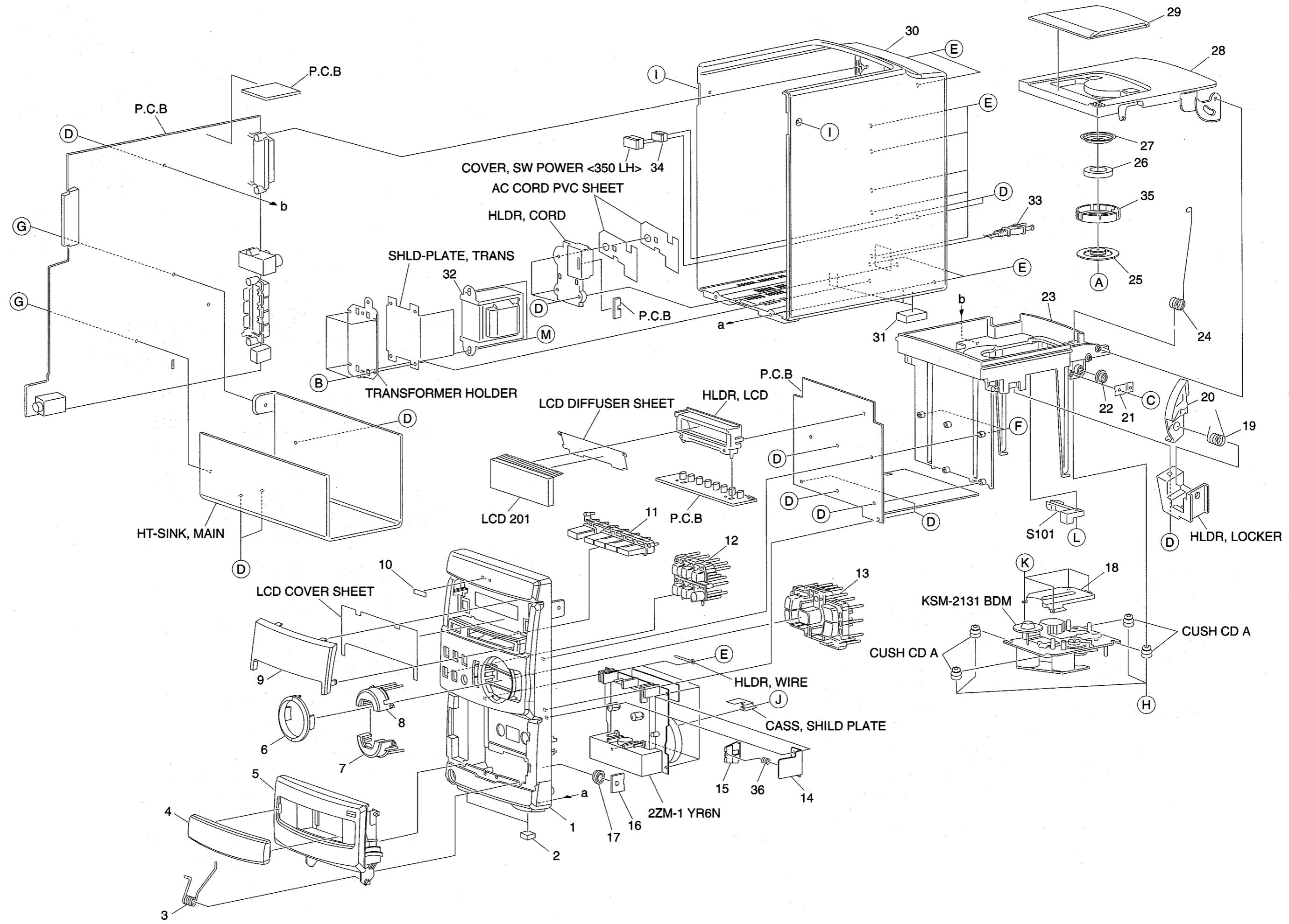


MECHANICAL PARTS LIST 1/1

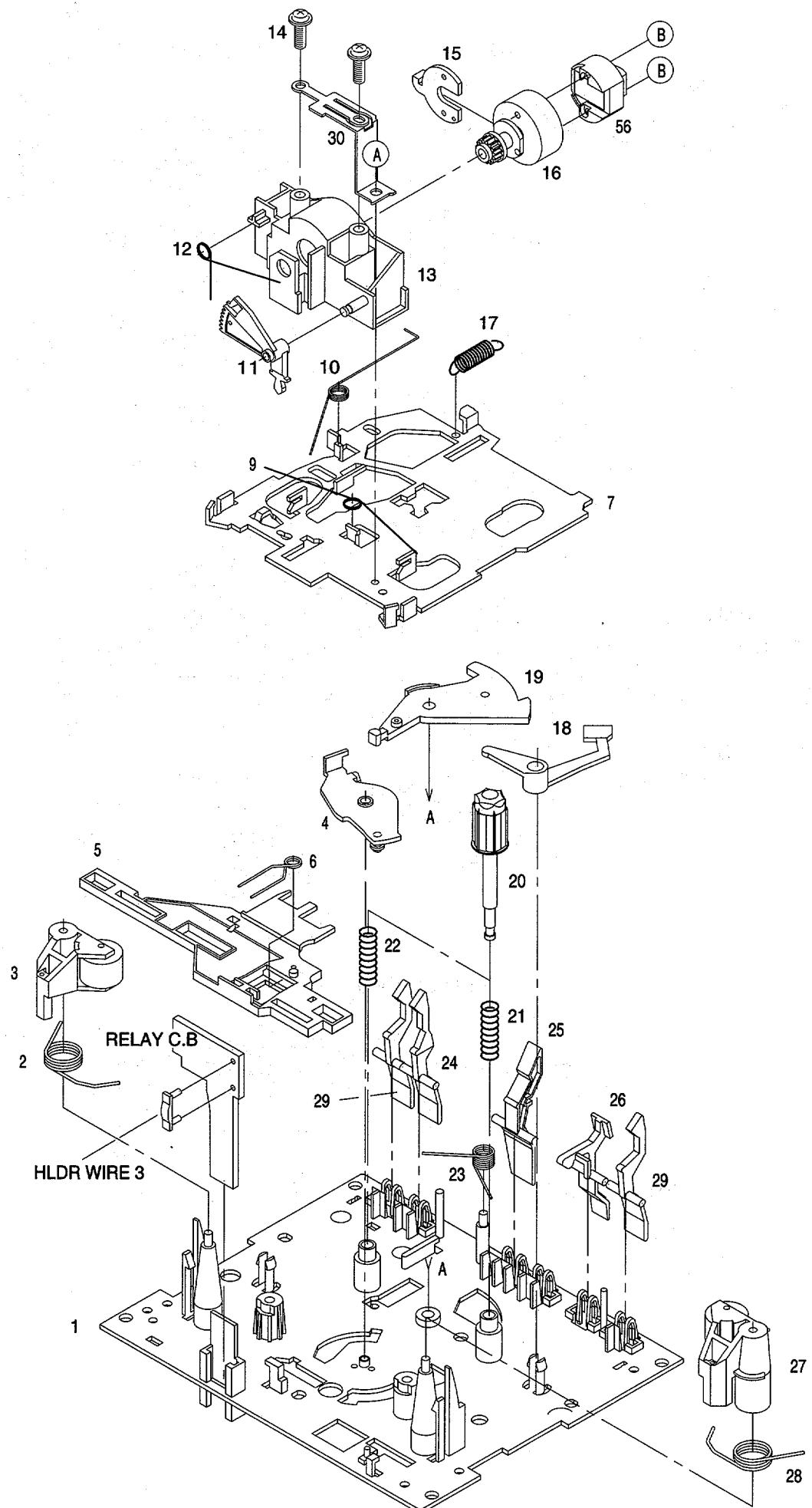
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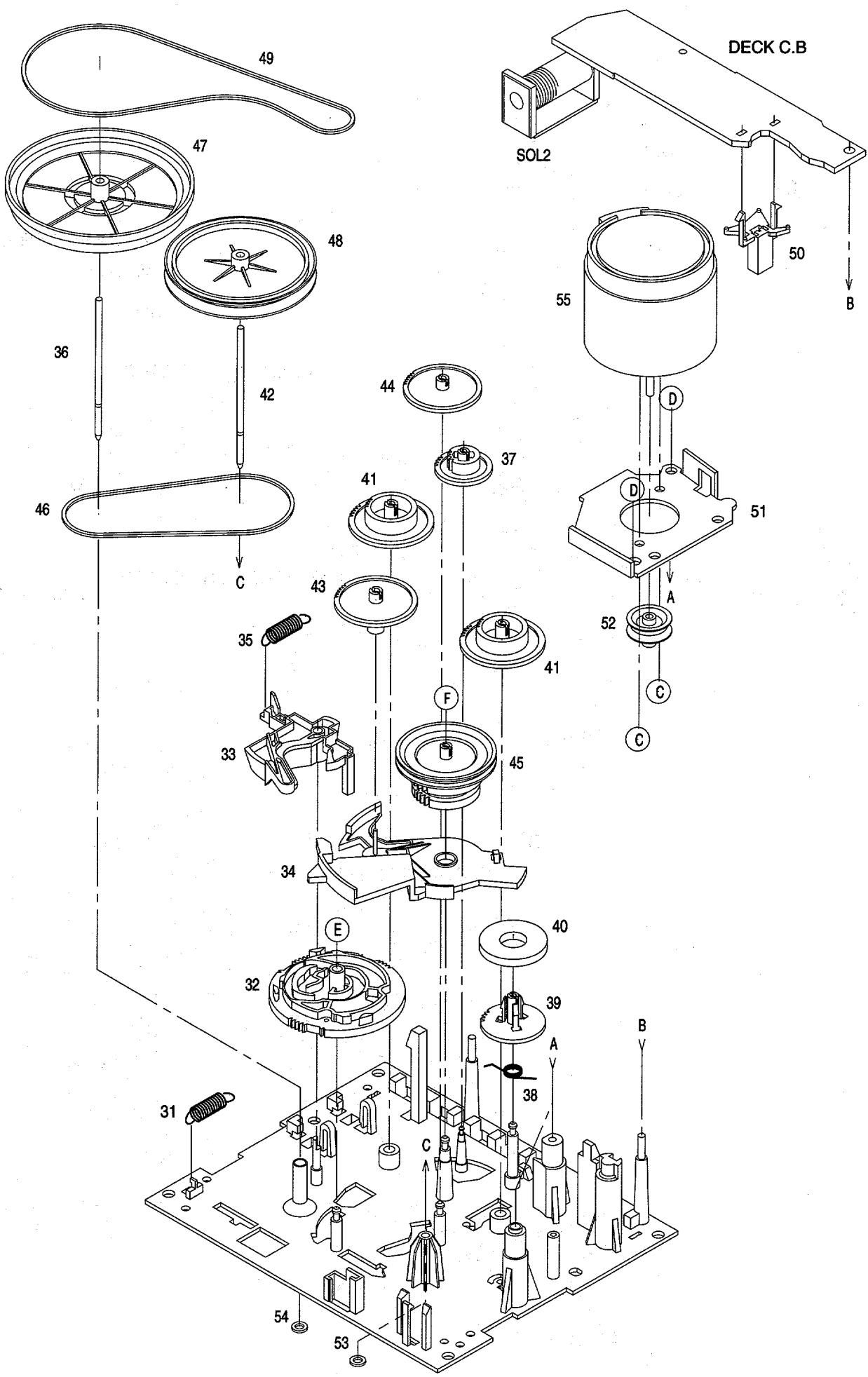
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-CL5-018-010		CABI, FRONT EZ<352EZ>	28	88-CL5-003-010		LID, CD<EXCEPT 358EZ>
1	88-CLF-001-010		CABI, FRONT F<358EZ>	28	88-CLF-004-010		LID, CD F<358EZ>
1	88-CL5-017-010		CABI, FRONT U<350LH, 350K>	29	88-CL5-004-010		WINDOW, CD
2	86-CL9-017-010		FOOT, RBR	30	88-CL5-002-010		CABI, REAR<350LH>
3	82-NF5-219-010		SPR-T, EJECT 2 (SIN)	30	88-CL5-023-010		CABI, REAR EZ<352EZ, 358EZ>
4	88-CL5-011-010		WINDOW, CASS BOX	30	88-CL5-024-010		CABI, REAR K<350K>
5	88-CL5-010-010		BOX, CASS	31	88-CL5-015-010		FOOT,
6	88-CL5-009-010		RING, KEY	32	88-CL5-637-010		PT, EZ<EXCEPT 350LH>
7	88-CL5-021-010		KEY, STOP	32	88-CL5-635-010		PT, H<350LH>
8	88-CL5-020-010		KEY, DIR	33	88-CL5-636-010		AC CORD ASSY, H<EXCEPT 350K>
9	88-CL5-006-010		WINDOW, FRONT RANE L	33	88-CL5-638-010		AC CORD ASSY, K<350K>
10	81-CD1-032-010		BADGE, AIWA 30J	34	S8-024-310-000		SW, SLIDE 1P1T
11	88-CL5-007-010		KEY, POWER/FUN	35	87-CD4-227-010		PANEL, PLATE B
12	88-CL5-008-010		KEY, EQ<350LH, 350K>	36	82-ZM1-264-010		LVR, EJECT R
12	88-CL5-043-010		KEY, RDS<352EZ, 358EZ>	A	87-251-033-410		BH/MS 2X4
13	88-CL5-019-010		KEY, CONTROL	B	87-481-097-410		WPH/TSM 3X12
14	88-CL5-202-010		HLDL, CASS LOCKE R	C	87-741-094-410		BH/TS 3X6
15	88-CL5-203-010		LEVER, CASS LOCKE R	D	87-741-095-410		BH/TS 3X8
16	84-CD5-216-010		BRACKET	E	87-743-096-410		BH/TS 3X10
17	84-CD5-215-010		GEAR	F	87-B10-159-010		BH/TS 3X18
18	87-CD4-045-010		COVER, CD MECHA	G	87-078-150-010		RH/MS 3X6
19	82-NF5-228-010		SPR-C, LOCK	H	81-CD5-204-010		CD SCREW 2X17
20	87-CD7-206-010		DOOR, CD LOCKER	I	87-721-096-410		KH/TS 3X10
21	82-NF5-229-010		PLATE, LOCK	J	87-351-549-310		PH/MS 2X4
22	87-CD7-210-010		GEAR, CD DOOR	K	87-351-551-310		PH/TS 2X5
23	88-CL5-022-010		CHAS, CD BRACKET	L	87-354-553-310		PH/TS 2X6
24	88-CL5-208-010		SPR-T, CD LID	M	87-761-094-410		WPH/TSM 3X6
25	87-CD4-238-010		BASE, CHUCK				
26	87-036-368-010		MAGNET				
27	87-CD4-219-010		PLATE, MAGNET				

MECHANICAL EXPLODED VIEW 1/1



TAPE MECHANISM EXPLODED VIEW 1/1



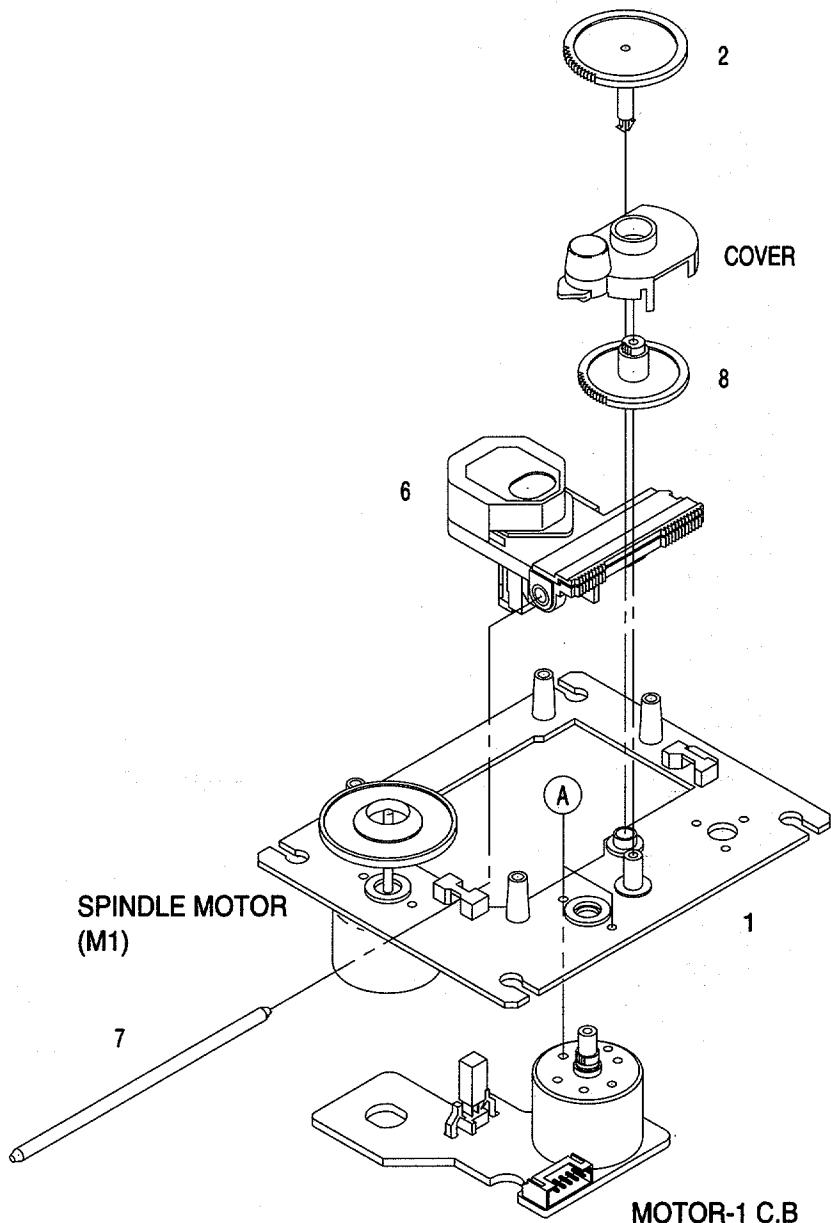


TAPE MECHANISM PARTS LIST 1/1

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If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM1-327-210	CHAS ASSY, RN		37	82-ZM1-223-010	GEAR, PLAY	
2	82-ZM1-258-010	SPR-T, PINCH L		38	82-ZM1-322-010	SPR-T, FR 60	
3	82-ZM1-341-010	LVR ASSY, PINCH L 2		39	82-ZM1-220-210	GEAR, IDLER	
4	82-ZM1-295-310	PLATE ASSY, LINK		40	82-ZM1-316-010	RING MAGNET 3	
5	82-ZM1-266-110	LVR, DIR		41	82-ZM1-216-310	GEAR, REEL	
6	82-ZM1-214-010	SPR-T, DIR		42	82-ZM1-236-010	CAPSTAN, 2-41.5	
7	82-ZM1-206-810	CHAS, HEAD		43	82-ZM1-225-010	GEAR, FR	
9	82-ZM1-269-210	SPR-T, BRG		44	82-ZM1-226-010	GEAR, REW	
10	82-ZM3-323-010	SPR-T, LINK 3		45	82-ZM3-333-210	SLIP DISK ASSY 2	
11	82-ZM1-210-110	GEAR, H T		46	82-ZM1-338-010	BELT, FR 4	
12	82-ZM1-213-010	SPR-T, HEAD		47	82-ZM1-349-010	FLY-WHL, RH	
13	82-ZM1-207-610	GUIDE, TAPE		48	82-ZM1-348-010	FLY-WHL, LW	
14	82-ZM1-283-310	S-SCREW, AZIMUTH		49	82-ZM1-340-010	BEKT, SBU MAIN 2	
15	82-ZM1-314-119	PLATE, HEAD		50	82-ZM1-245-210	HLDR, IC	
16	82-ZM1-208-110	HLDR, HEAD		51	82-ZM1-246-010	HLDR, MOTOR	
17	82-ZM1-218-010	SPR-E, HB		52	82-ZM1-247-110	PULLEY, MOTOR	
18	82-ZM1-264-010	LVR, EJECT R		53	82-ZM1-288-010	SH, 1.63-3.2-0.5 SLT	
19	82-ZM1-222-210	LVR, PLAY		54	80-ZM6-243-010	SH, 1.75-3.6-0.5 SLT	
20	82-ZM1-217-310	REEL TABLE		55	87-045-347-010	MOT, SHU 2L 70(M1)	
21	82-ZM1-244-510	SPR-C, BT		56	87-046-399-010	HEAD, RPH YK56R-BS409(RPH)	
22	82-ZM1-285-410	SPR-C, BT L		A	82-ZM1-315-010	S-SCREW, GUIDE TAPE	
23	82-ZM1-257-010	SPR-T, CAS		B	80-ZM6-207-010	V+1.6-7	
24	82-ZM1-241-310	LVR, MC		C	87-251-070-410	U+2.6-3	
25	82-ZM1-242-010	LVR, CAS		D	87-741-073-410	UT2+2.6-6 GLD	
26	82-ZM1-243-010	LVR, STOP		E	87-B10-008-010	PW, 2.15-6.8-0.4 SLT	
27	82-ZM1-344-010	LVR ASSY, PINCH R		F	82-ZM3-334-010	PW, 2.16-6-0.4	
28	82-ZM1-259-110	SPR-T, PINCH R					
29	82-ZM1-240-110	LVR, REC					
30	82-ZM1-298-010	SPR-P, EARTH					
31	82-ZM1-255-310	SPR-E, LVR DIR					
32	82-ZM1-221-110	GEAR, CAM					
33	82-ZM1-227-210	LVR, TRIG					
34	82-ZM1-224-410	LVR, FR					
35	82-ZM1-305-110	SPR-E, TRIG 2					
36	82-ZM1-239-010	CAPSTAN 2.2-41.7					

CD MECHANISM EXPLODED VIEW 1/1



CD MECHANISM PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	9X-262-587-010		MOTOR CHASSIS ASSY
2	92-626-907-010		GEAR(A)
6	98-848-376-110		OPTICAL PICK UP KSS-213B RP
7	92-626-908-010		SHAFT SLED
8	92-627-003-010		GEAR B
A	97-621-255-150		SCREW+P2-3

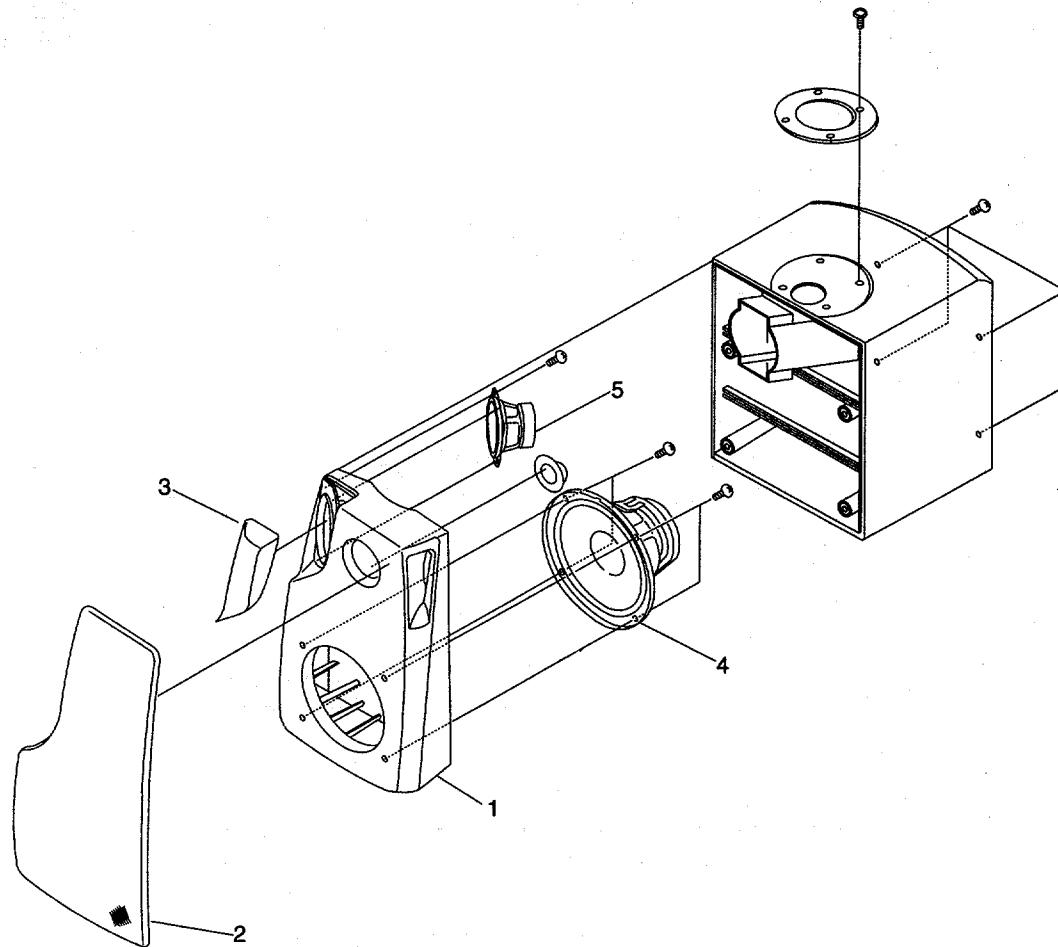
Note: REF.NOs. 3, 4 and 5 are not used.

SPEAKER PARTS LIST 1/1 (LCX-350/352)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	81-CD1-032-010		BADGE, AIWA 30J
2	88-CL5-012-010		CABI, FRONT SPKR<LH, K>
2	88-CL5-041-010		CABI, FRONT SPKR 2WAY<352EZ>
3	88-CL5-013-010		FRAME, SPKR<LH, K>
3	88-CL5-042-010		FRAME, SPKR 2WAY<352EZ>
4	88-CL5-204-010		FRAME, SPKR
5	88-CL5-764-010		CORD, SPEAKER<LH, K>
5	88-CL5-766-010		CORD, SPEAKER-2WAY<352EZ>
6	88-CL5-762-010		SPKR, CERTWEETER<352EZ>
6	88-CL5-761-010		SPKR, 10 8OHM<LH, K>
7	88-CL5-763-010		SPKR, DUSTCAP<352EZ>

SPEAKER EXPLODED VIEW 1/1 (LCX-358)

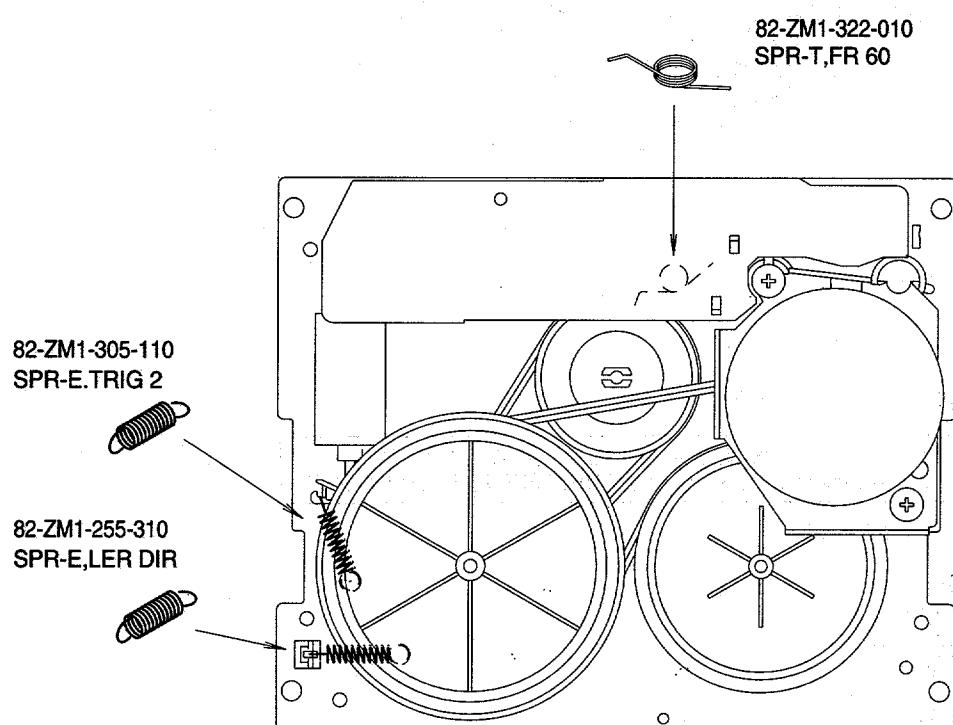
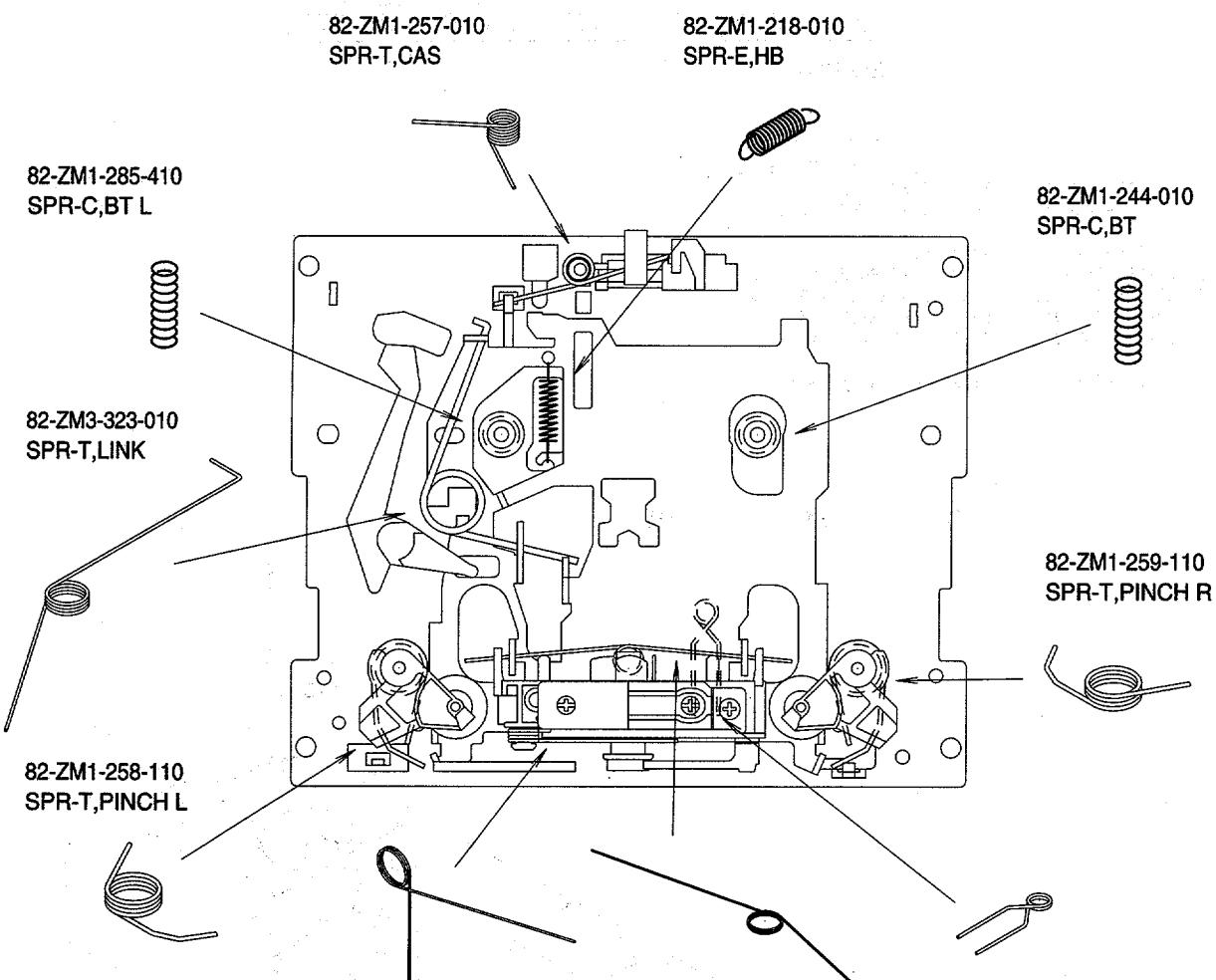


SPEAKER PARTS LIST 1/1 (LCX-358)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-CLE-001-010		PANEL, FR R
1	87-CLE-002-010		PANEL, FR L
2	87-CLE-004-010		GRILLE FRAME R
2	87-CLE-005-010		GRILLE FRAME L
3	87-CLE-009-010		PROTECTOR, TW
4	87-CLE-771-010		SPKR, WOOFER
5	87-CLE-772-010		SPKR, MID-R

SPRING APPLICATION POSITION



REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESIVE	ADHESIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G— —	
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**アイワ株式会社
AIWA CO.,LTD.**

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Tokyo Japan

〒110-8710 東京都台東区池之端1-2-11 ☎03 (3827) 3111 (代表)

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